WM-F46

SERVICE MANUAL

US Model
Canadian Model

SEE SEPARATE MANUAL
FOR THE MDR-010L HEADPHONES.

PHOTO: US Model

SPECIFICATIONS

Tape Transport Mechanism Type	**MF-WMF17-06**
Similar Mechanism Set	**WM-F17**

Radio section

Frequency range FM: 87.6 – 108 MHz
AM: 530 – 1,605 kHz

Antenna FM: Headphone cord antenna
AM: Built-in ferrite bar antenna

Tape recorder section and general

Tape track 4-track 2-channel stereo

Fast winding time
Approx. 3 min. with Sony C-60 cassette

Frequency response
40 – 15,000 Hz (with the PB EQ selector set to METAL/CrO_2)
40 – 15,000 Hz (with the PB EQ selector set to NORM)

Input External microphone input (stereo minijack)
(PLUG IN POWER)
sensitivity 2.5 mV (–50dBs) for low impedance microphone

Output Headphones jack (stereo minijack)
load impednance 32 ohms

Power output 15 mW + 15mW
(at 10% hamonic distortion) at DC operation

Power requirements
3 V DC
two size AA (R6) batteries
DC IN 3 V jack accepts:
optional Sony AC-D2M AC power adaptor for use on 120 V AC, 60 Hz
optional Sony EBP-500A battery case for use on two size D (R20) batteries
optional Sony DCC-70 car battery cord for use with 12 V car battery

Battery life (hours)

Batteries	FM reception	Tape playback	FM recording (headphones)	Recording (microphone)
Sony batteries SUM-3 (NS)	Approx. 23	Approx. 3.5	Approx. 2.5	Approx. 3
Sony Alkaline batteries AM3 (N)	Approx. 45	Approx. 10	Approx. 6	Approx. 8.5

For maximum performance we recommend the use of alkaline batteries.

Dimensions Approx. 95 x 145.5 x 37.5 mm (w/h/d)
(3 3/4 x 5 3/4 x 1 1/2 inches)
incl. projecting parts and controls

Weight Approx. 350 g (12.3 oz)
incl. batteries, not incl. other accessories

Supplied accessories
Stereo headphones (open-air type, 1)
Electret condenser stereo microphone (1)
Microphone stand (1)
Shoulder strap (1)

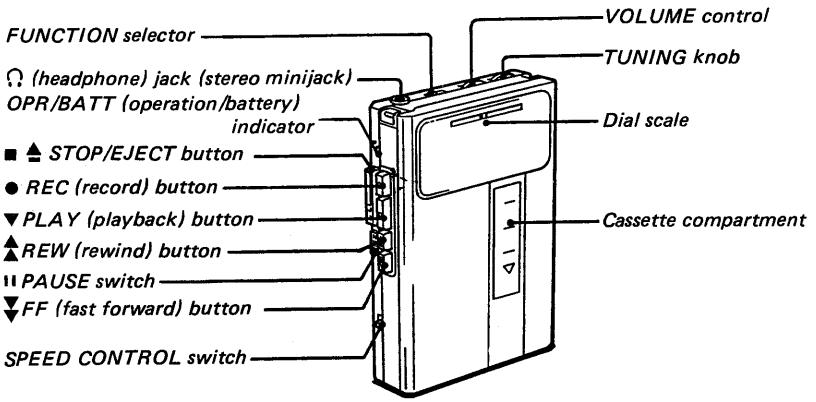
使用時は添付資料も参照のこと
Refer to the appliance documents

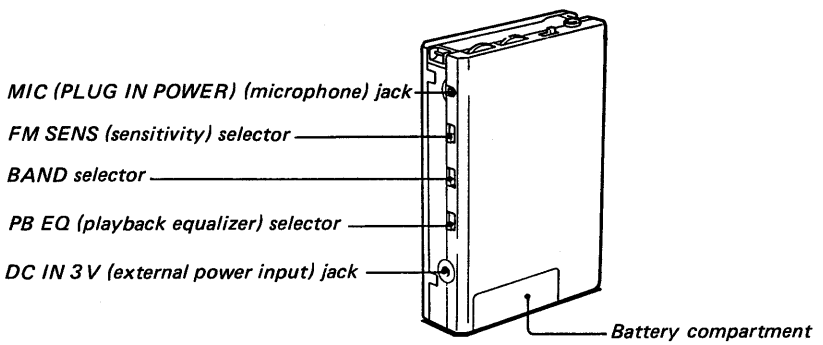
FM/AM STEREO CASSETTE-CORDER

SONY®

TC

PARTS IDENTIFICATION




MIC (PLUG IN POWER) (microphone) jack
FM SENS (sensitivity) selector
BAND selector
PB EQ (playback equalizer) selector
DC IN 3 V (external power input) jack
Battery compartment

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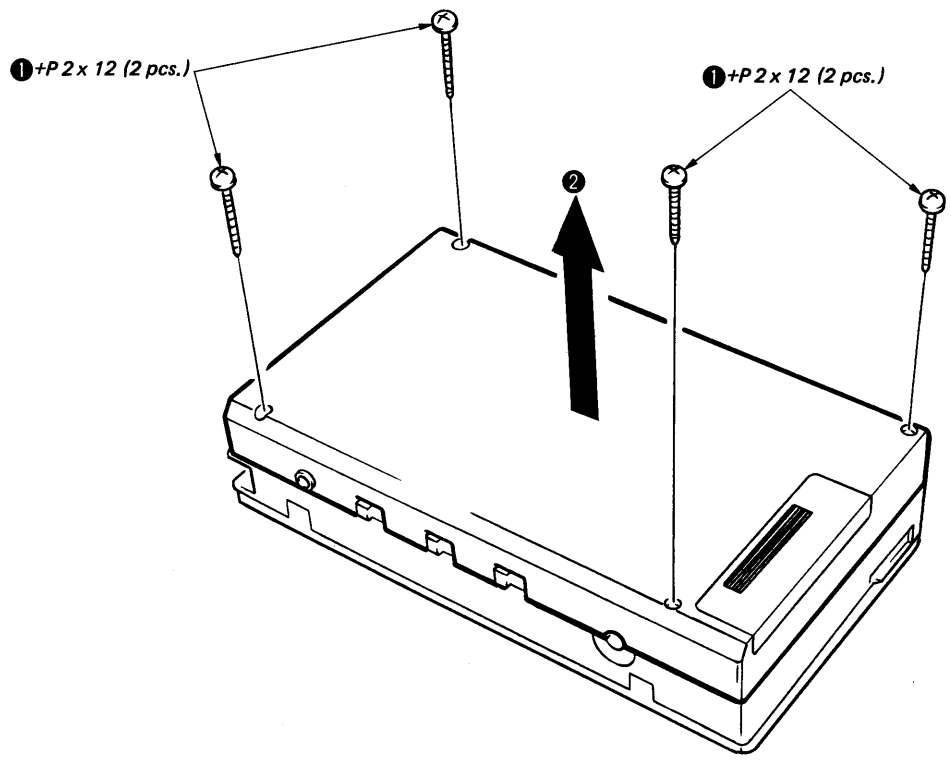
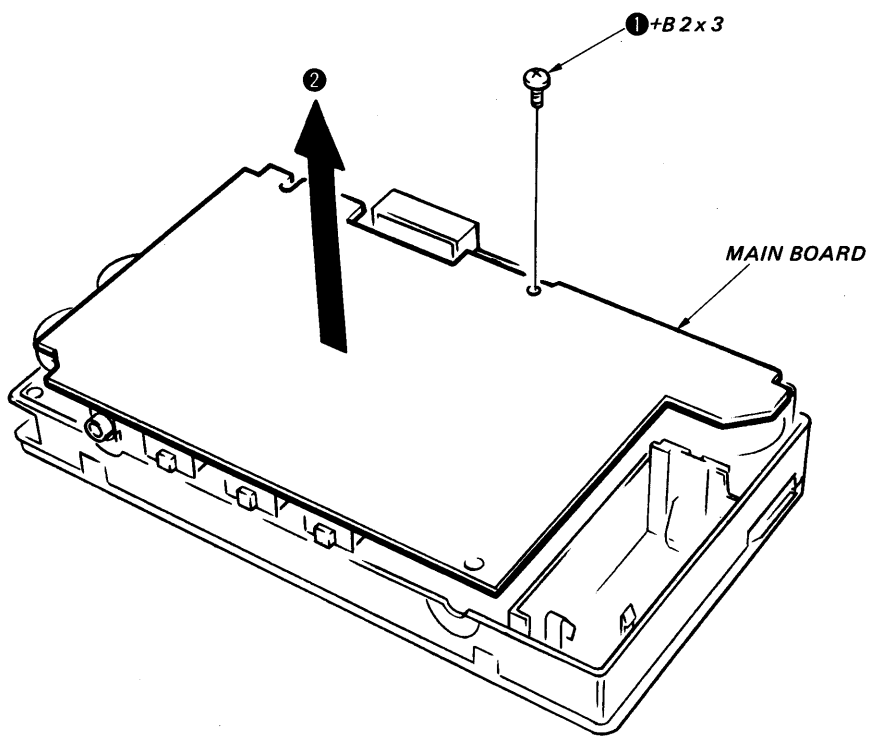
SECTION 1
DISASSEMBLY

• Follow the disassembly procedure in the numerical order given.

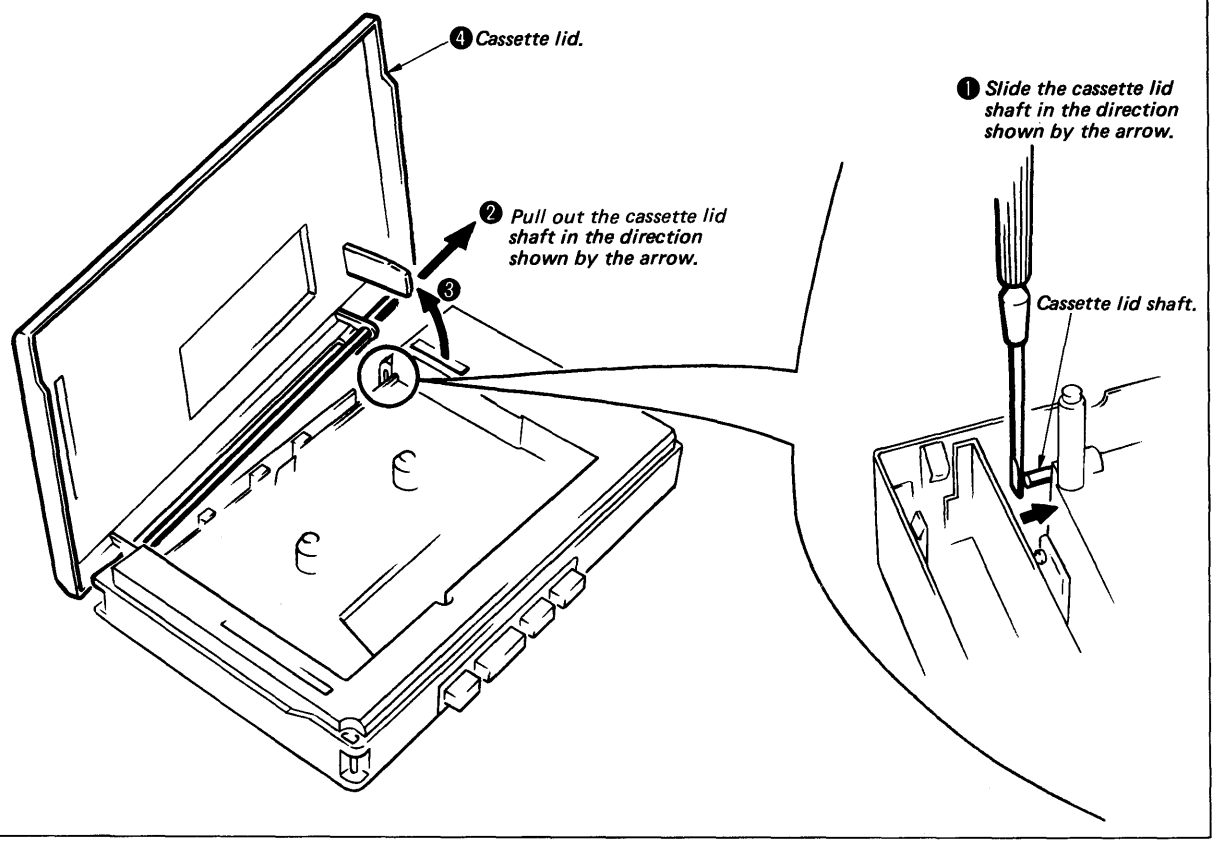
REAR CABINET



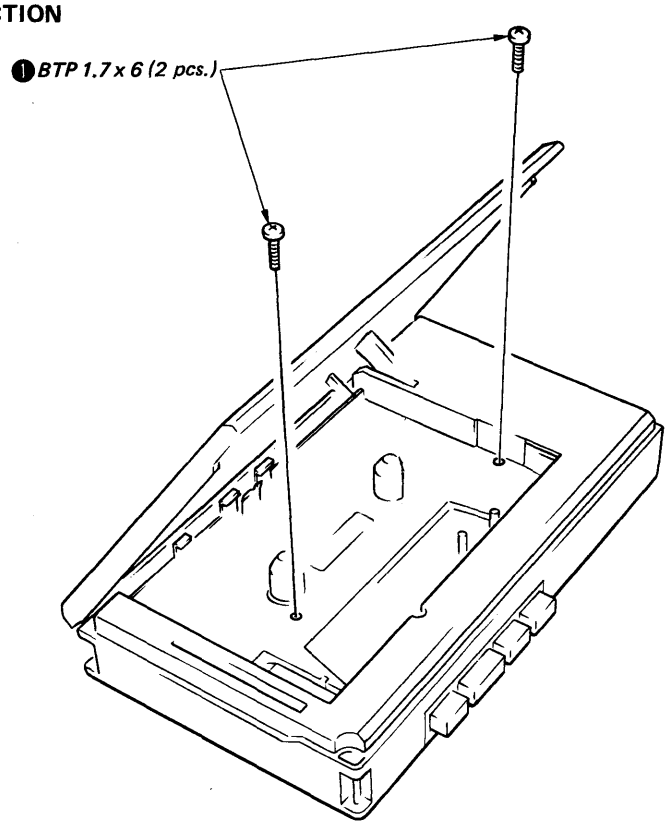
MAIN BOARD



CASSETTE LID


❹ Cassette lid.
❶ Slide the cassette lid shaft in the direction shown by the arrow.
❷ Pull out the cassette lid shaft in the direction shown by the arrow.
❸
Cassette lid shaft.

MECHANISM SECTION



SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS AND MEASUREMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

power supply voltage: 3 V dc
SPEED CONTROL knob: center click

Torque Measurement

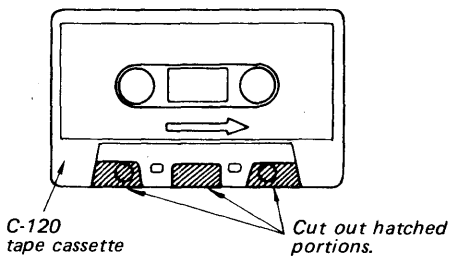
Torque	Meter Reading	Torque Meter
Forward	22 – 40 g•cm (0.30 – 0.55 oz•inch)	CQ-102C
Back Tension	2 – 4 g•cm (0.03 – 0.05 oz•inch)	CQ-102C
Fast Forward and Rewind	67.5 – 95 g•cm (0.93 – 1.31 oz•inch)	CQ-201B

Tape Tension Measurement

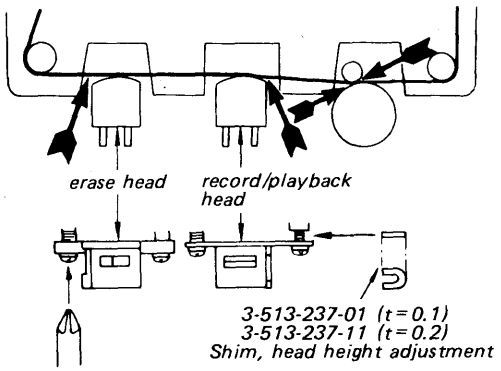
Meter	Meter Reading
CQ-403A	More than 120 g (4.23 oz)

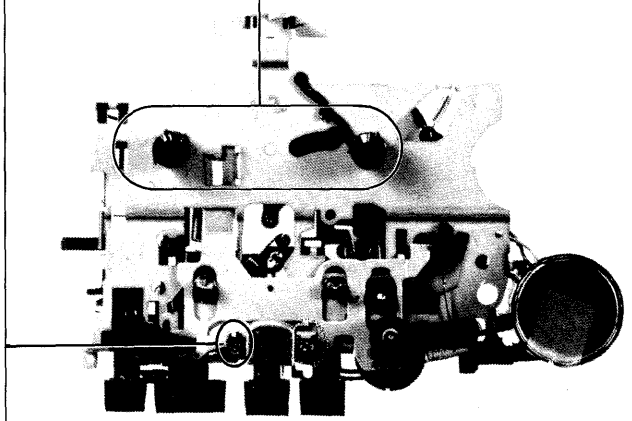
Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrow-marked portions.





2-2. ELECTRICAL ADJUSTMENTS

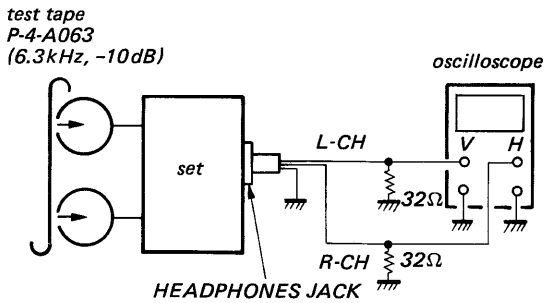
Record/playback Head Azimuth Adjustment

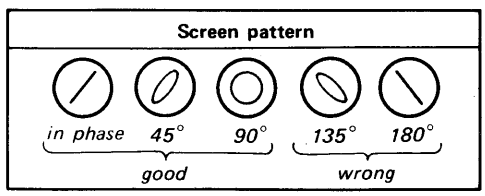
Setting:

SPEED CONTROL switch: NORMAL

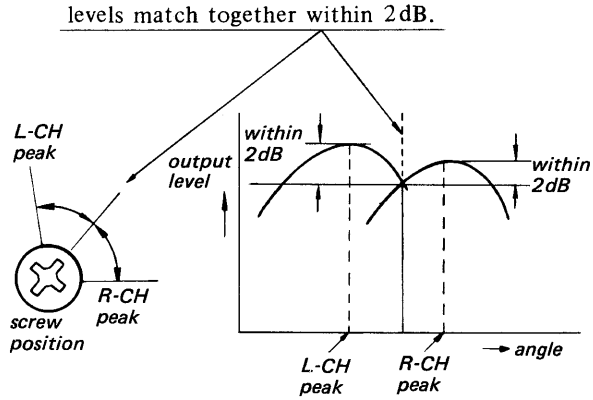
Procedure:

1. Mode: playback

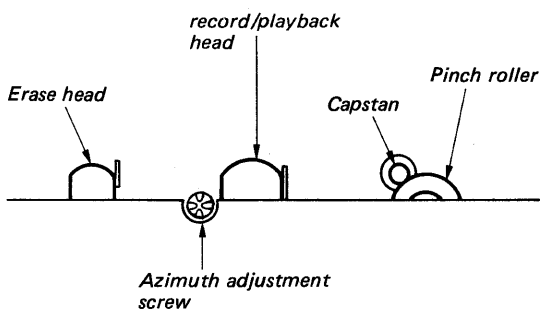




2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.



Adjustment Location:



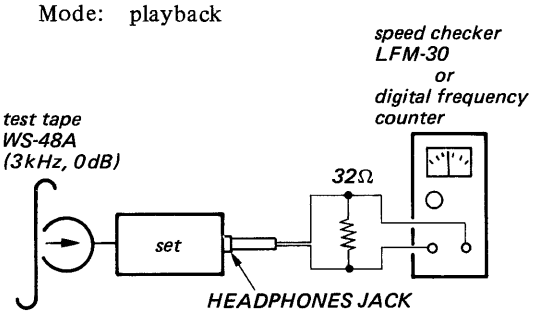
Tape Speed Adjustment

Setting:

SPEED CONTROL switch: NORMAL

Procedure:

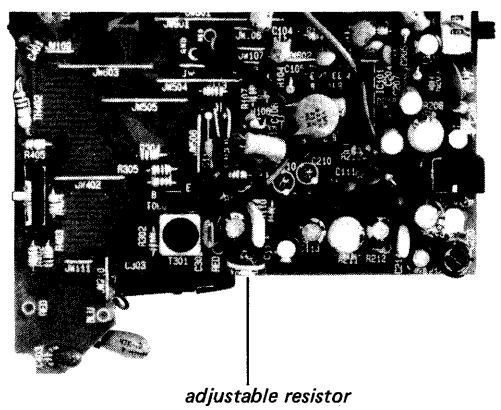
Mode: playback



Specification:

Speed checker	Digital frequency counter
-0.3% to +0.3%	2,990 – 3,010 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

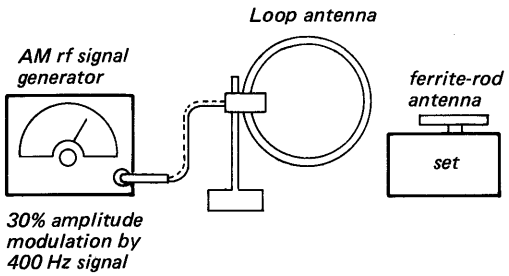


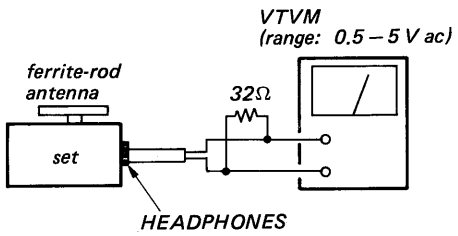
AM SECTION

Setting:

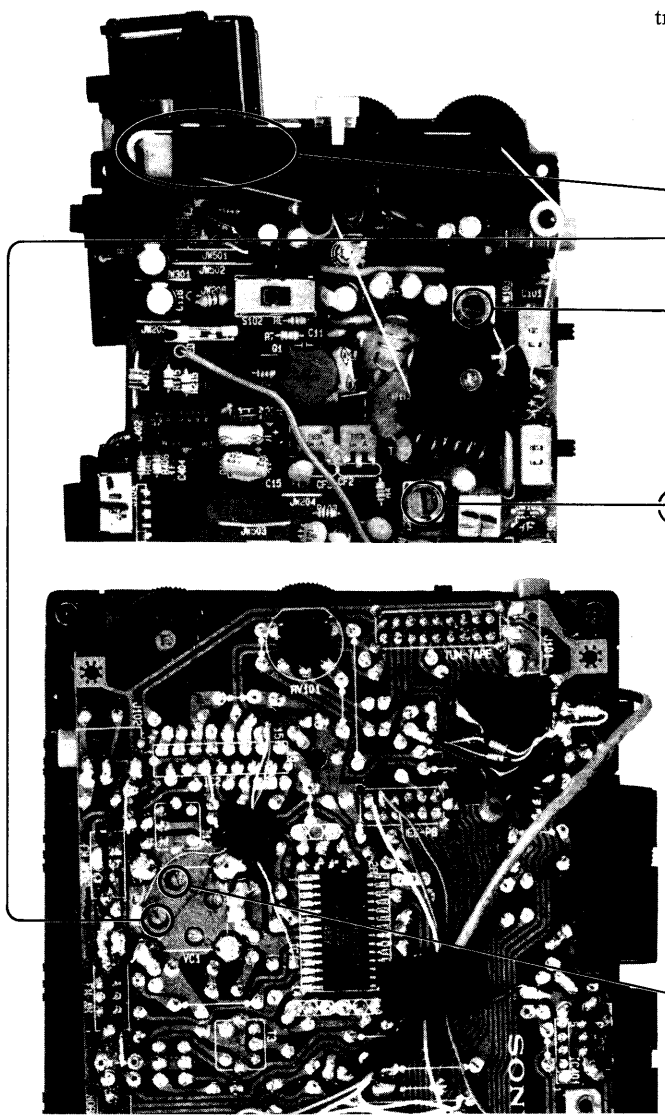
FUNCTION selector: RADIO
BAND selector: AM

Procedure:





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	600 kHz
CT4	1,400 kHz

AM IF ALIGNMENT
Adjust for a maximum reading on VTVM.
455 kHz
T3

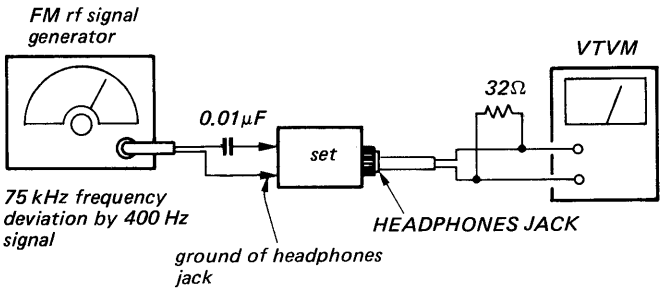
AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T2	520 kHz
CT3	1,680 kHz

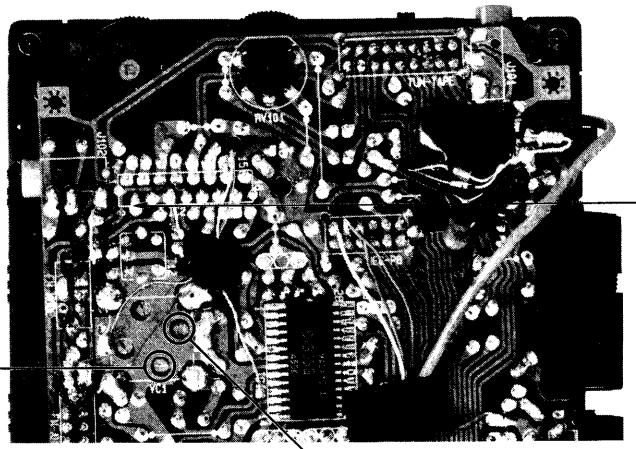
FM SECTION

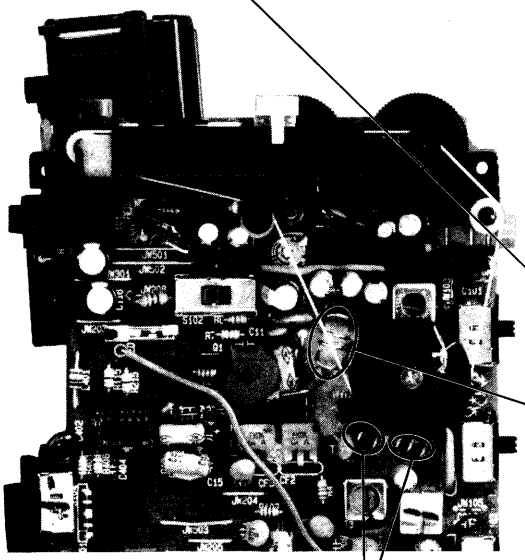
Setting:

FUNCTION switch: RADIO
BAND SELECT switch: FM

Procedure:





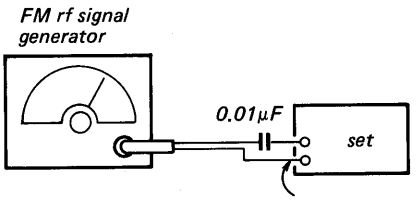


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

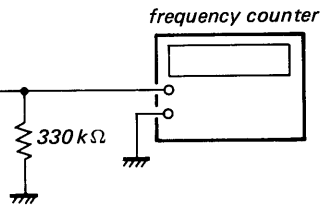
VCO Adjustment

A) Regular Method

Procedure:



Carrier frequency: *98 MHz*
Modulation: *400 Hz, 30%*
Output level: *562μV (55 dB)*



1. Tune the set to 98 MHz.
2. Adjust VR1 for 19 kHz ± 100 Hz on the counter.

FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
CT1	108.5 MHz
L1	87.1 MHz

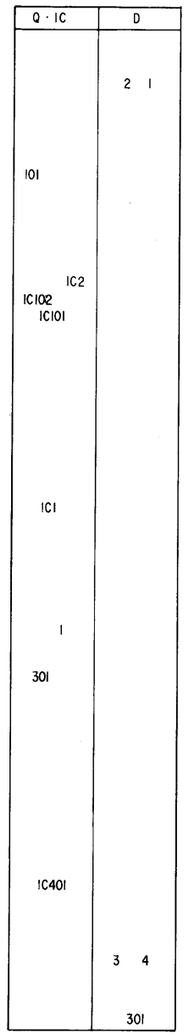
CT2	L2, 3
108.5 MHz	87.1 MHz
Adjust for a maximum reading on VTVM.	
TRACKING ADJUSTMENT	

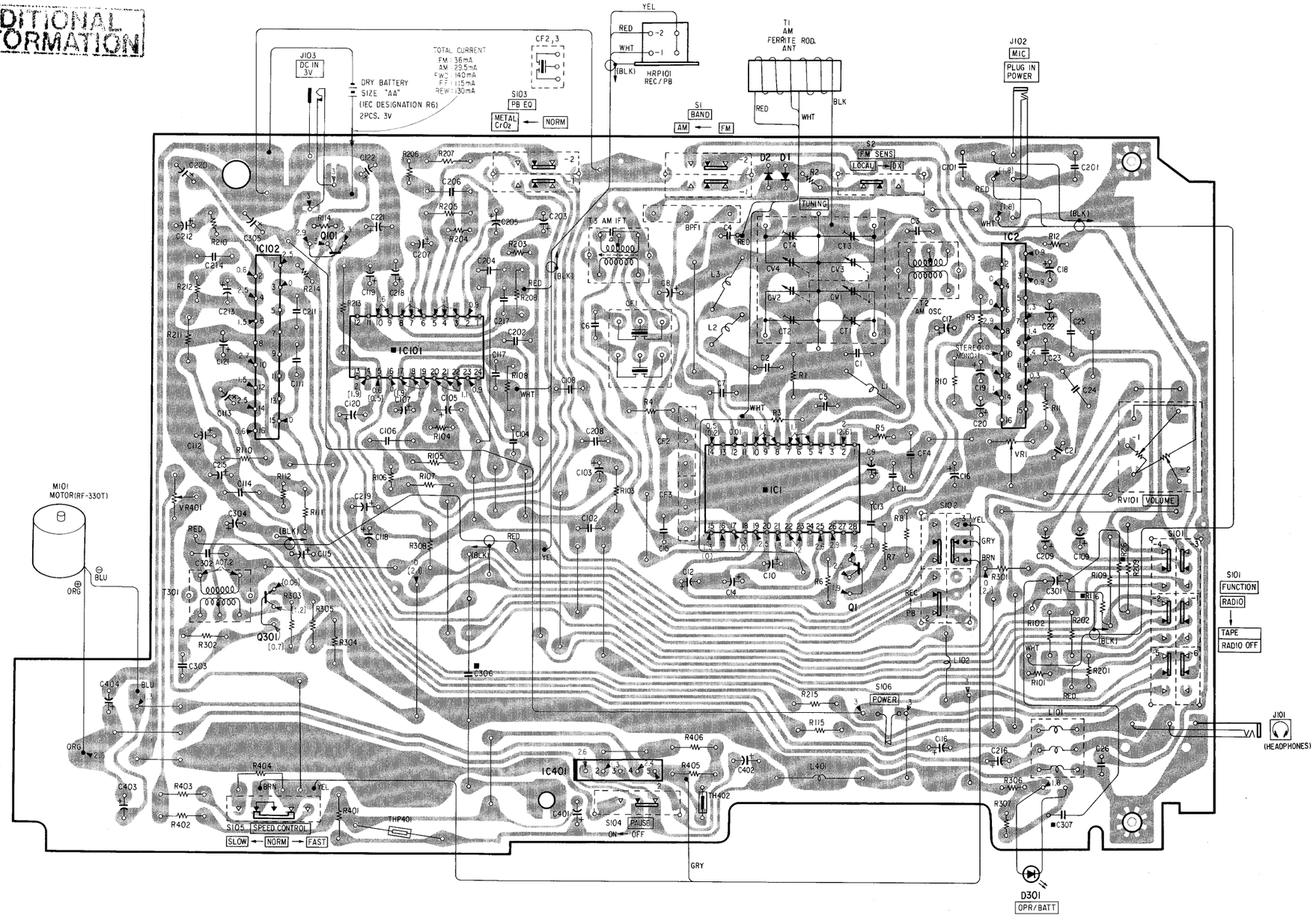
SECTION 3 DIAGRAMS

SEE ADDITIONAL INFORMATION

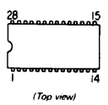
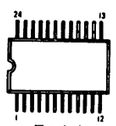
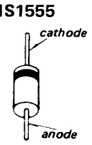
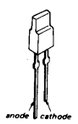
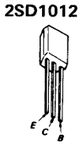
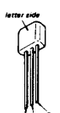
3-1. MOUNTING DIAGRAM

SEE ADDITIONAL INFORMATION



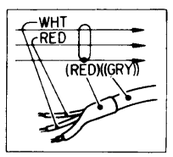


Semiconductor Lead Layouts

μPC1303G	LA5523	BA1360 BA5204	CX20023	1S1555	SLP161B	2SC536SP 2SD1012	2SA1175
							
(Top view)	1 2 3 4 5	1 16	(Top view)	cathode anode	anode cathode	E C B	letter side E C B

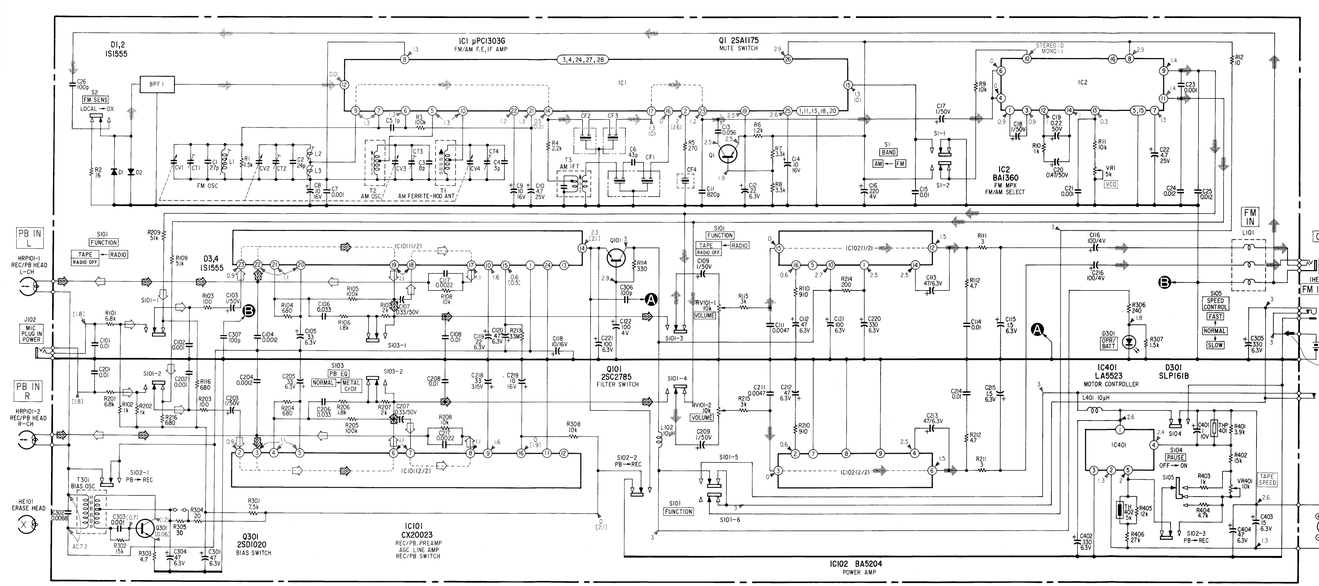
Note:

- Color code of sleeving over the end of the jacket.



o—— : parts extracted from the component side.
●—— : parts extracted from the conductor side.
■ : part mounted on the conductor side.

3-2. SCHEMATIC DIAGRAM

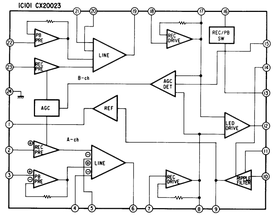


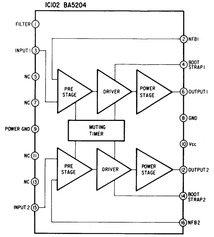
Note:

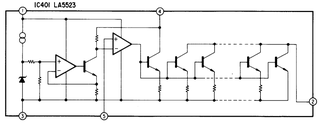
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : FM signal path
- : P.B. signal path
- : REC. signal path
- : B+ bus.
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark: FM
  ( ): MW
  [ ]: REC
- Voltage variations may be noted due to normal production tolerances.
- Power voltage is 3 V and fed with regulated dc power supply from DC IN jack.
  Voltage variations may be noted due to normal production tolerances.
- Switches

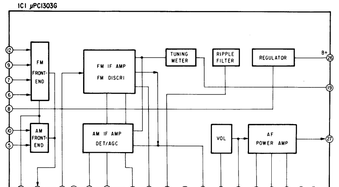
Ref. No.	Switch	Position
S1	BAND	FM
S2	LOCAL/DX	LOCAL
S101	FUNCTION	RADIO
S102	REC/PB	PB
S103	TAPE SELECTOR	NORMAL
S104	PAUSE	OFF
S105	SPEED CONTROL	NORMAL
S106	POWER	OFF

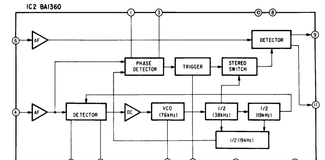
3-3. IC BLOCK DIAGRAMS









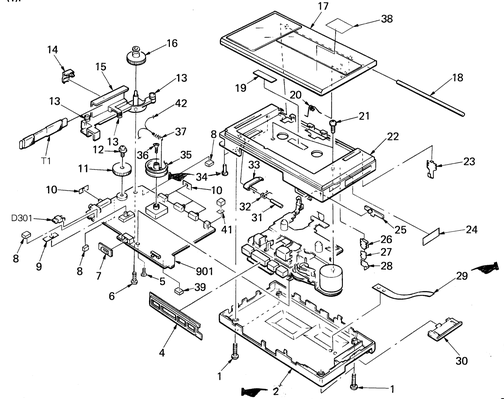


REVISED SEE ADDITIONAL INFORMATION

SECTION 4
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

(1).



No.	Part No.	Description	Remarks
1	7-685-107-19	SCREW +P 2X12 TYPE2 SLIT	
2	3-317-280-21	CABINET (REAR)	
~~3~~	~~3-301-540-A~~	~~CABINET (REAR) ASSY~~	
4	3-317-270-01	PANEL, CONTROL	
5	7-621-772-08	SCREW +B 2X3	
6	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
7	3-317-264-01	BUTTON, PAUSE	
8	9-911-840-XX	CUSHION (A)	
9	9-911-863-XX	SHEET, INSULATING.	
10	3-305-653-00	PLATE (A), BLIND	
11	3-327-003-01	KNOB, VOL	
12	3-703-502-31	SCREW	
13	3-881-911-00	PULLEY	
14	3-317-260-01	POINTER	
15	3-317-278-01	CHASSIS, DIAL	
16	3-317-261-01	KNOB, TUN	
17	X-3335-632-1	(US).....LID ASSY, CASSETTE	
	X-3335-632-2	(Canadian)...LID ASSY, CASSETTE	
18	*3-327-012-01	SHAFT, CASSETTE LID	
19	3-578-101-00	PLATE, ORNAMENTAL	
20	3-317-262-01	SPRING	
21	3-318-203-11	SCREW (B1.7X6), TAPPING	
22	3-317-279-31	(US,Canadian) CABINET (FRONT)	

No.	Part No.	Description	Remarks
23	3-319-009-01	TERMINAL BOARD (A), BATTERY	
24	3-527-213-00	LABEL, SERIAL NUMBER	
25	3-317-263-01	KNOB, SLIDE	
26	3-319-010-01	TERMINAL BOARD (C), BATTERY	
27	3-309-443-00	SPRING, LEAF	
28	3-319-011-01	TERMINAL BOARD (D), BATTERY	
29	9-911-816-01	RIBBON, BATTERY	
30	3-317-276-21	LID, BATTERY CASE	
31	3-703-357-06	PIN, PARALLEL (DIA. 1.6X14)	
32	3-318-215-01	SPRING	
33	3-321-022-01	LEVER, EJECT	
34	3-327-008-01	SHAFT, BELT	
35	*3-317-266-01	DRUM, DIAL	
36	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL	
37	3-317-268-01	SPRING, TENTION	
38	3-703-707-01	STICKER, SONY SYMBOL (21)	
39	9-911-845-XX	CUSHION	
40	3-831-441-11	CUSHION (B)	
41	9-911-863-XX	SHEET, JACK, DC	
42	9-911-825-52	STRING, DIAL 0.3MM	
901	*A-3215-858-A	PC BOARD ASSY, MAIN	
T1	1-402-180-11	ANTENNA, FERRITE-ROD (MW)	

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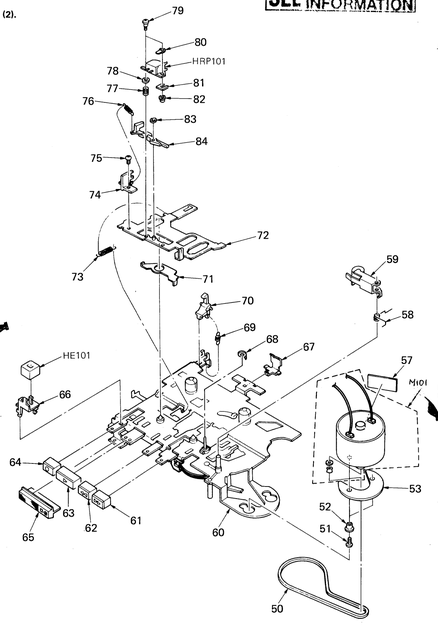
(2).



REVISED SEE ADDITIONAL INFORMATION

No.	Part No.	Description	Remarks
50	3-313-568-01	BELT	
51	7-627-552-67	SCREW, PRECISION +P 1.7X4.5	
52	*3-318-310-01	COLLAR, MOTOR	
53	*3-318-254-11	CUSHION, MOTOR	
57	3-831-441-XX	CUSHION	
58	3-318-275-01	SPRING	
59	A-3110-010-A	PINCH LEVER ASSY	
60	*X-3317-230-1	CHASSIS ASSY, OUTSART	
61	3-317-274-01	BUTTON, FF	
62	3-317-275-01	BUTTON, REW	
63	3-317-272-01	BUTTON, PLAY	
64	3-317-273-01	BUTTON, REC	
65	3-317-271-01	BUTTON, STOP	
66	3-318-285-01	BRACKET, ERASE HEAD	
67	3-318-269-01	SPRING	
68	*3-318-353-01	CONDUCTOR (2)	
69	3-318-336-01	SPRING, TENSION	
70	3-318-286-01	LEVER, ERASING PROTECTION	
71	*3-318-267-01	LEVER, CR	
72	X-3318-225-1	CHASSIS ASSY, HEAD	
73	3-565-927-00	SPRING, TENSION	
74	3-318-287-01	GUIDE, TAPE	
75	7-627-552-07	SCREW, PRECISION +P 1.7X2.5	
76	3-318-238-01	SPRING, TENSION	
77	3-318-237-01	SPRING, COMPRESSION	
78	7-688-001-01	W 2, SMALL	
79	3-318-240-01	SCREW (1.4), SPECIAL	
80	7-623-505-01	LUG, 2	
81	3-578-138-01	SHIM (t=0.1)	
	3-578-138-11	SHIM (t=0.2)	
	3-578-138-21	SHIM (t=0.3)	
82	3-318-309-01	SPACER, HEAD	
83	3-570-615-00	POLY-WASHER (DIA.1.2)	
84	3-318-252-01	ARM, DETECTION	
HE101	8-658-096-02	HEAD, ERASE EBF5-36	
HRP101	1-543-267-11	HEAD, RECORD/PLAYBACK	
M101	X-3317-234-1	MOTOR KIT ASSY	

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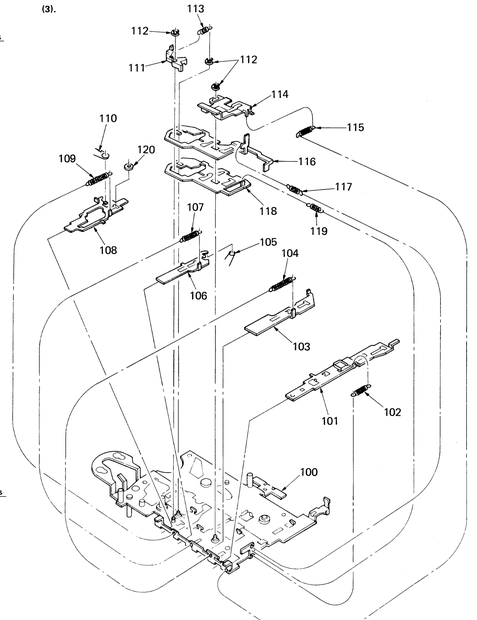

No.	Part No.	Description	Remarks
100	*X-3317-230-1	CHASSIS ASSY, OUTSART	
101	*X-3317-229-1	LEVER ASSY, REC	
102	3-318-247-01	SPRING, TENSION	
103	*3-318-290-01	LEVER, PLAY	
104	3-318-246-01	SPRING, TENSION	
105	3-318-277-01	SPRING, REW	
106	3-318-292-01	LEVER, REW	
107	3-318-251-01	SPRING, TENSION	
108	3-318-291-01	LEVER, FF	
109	3-318-250-01	SPRING, TENSION	
110	3-318-276-01	SPRING	
111	3-318-296-01	LEVER, SHUT-OFF	
112	7-624-101-01	RING, RETAINING E-1.2	
113	3-318-351-01	SPRING, TENSION	
114	*3-318-293-01	LEVER, STOP	
115	3-547-669-00	SPRING, TENSION	
116	*3-317-253-01	LEVER, SW	
117	3-318-248-01	SPRING, TENSION	
118	*3-318-294-01	PLATE, LOCK	
119	3-331-403-01	SPRING, TENSION	
120	3-701-437-01	WASHER	

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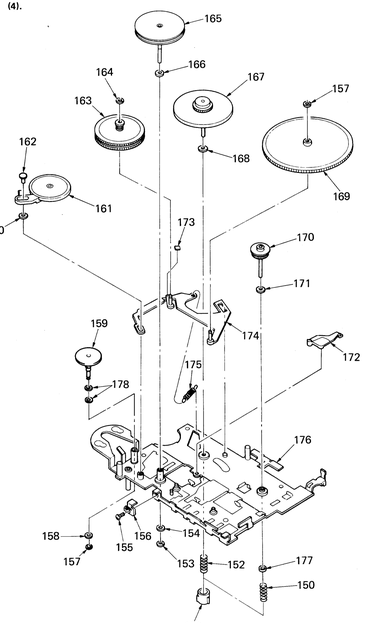

No.	Part No.	Description	Remarks
150	3-321-024-01	SPRING, COMPRESSION	
151	3-306-836-02	CAP, REEL, T	
152	3-318-241-01	SPRING, COMPRESSION	
153	3-318-236-01	WASHER, POLY, SLIT	
154	3-701-437-01	WASHER (t=0.13)	
155	3-318-203-11	SCREW (B1.7X6), TAPPING	
156	*3-317-267-01	BRACKET, PC BOARD	
157	3-570-615-00	POLY-WASHER (DIA.1.2)	
158	3-701-436-11	WASHER, 1.6 (t=0.25)	
159	X-3319-004-1	WHEEL ASSY, REVERSE	
160	3-827-323-11	WASHER (DIA. 3.1)	
161	X-3318-210-1	LEVER ASSY, FWD IDLER	
162	3-318-324-01	BUSHING, IDLER LEVER	
163	X-3318-207-1	GEAR (A) ASSY, FR	
164	3-578-265-11	WASHER, STOPPER	
165	X-3313-509-1	FLYWHEEL ASSY	
166	3-701-437-11	WASHER (t=0.25)	
167	X-3325-619-1	CLUTCH ASSY	
168	3-701-437-41	WASHER (t=0.35)	
169	3-318-265-01	GEAR (B), FR	
170	X-3318-204-1	GEAR ASSY, REW	
171	3-701-437-21	WASHER (t=0.5)	
172	3-318-286-01	ARM, FF	
173	3-831-441-XX	CUSHION	
174	X-3318-208-1	LEVER ASSY, FR	
175	3-318-243-01	SPRING, TENSION	
176	*X-3317-230-1	CHASSIS ASSY, OUTSART	
177	3-325-690-01	WASHER, B.T	
178	3-701-436-01	WASHER, 1.6 (t=0.13)	

SEE SERVICE INFORMATION

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-3215-858-A	PC BOARD ASSY, MAIN			
BPF1	1-235-142-00	FILTER, BAND PASS			
C1	1-102-883-00	CERAMIC	27PF	5%	50V
C2	1-102-515-00	CERAMIC	24PF	5%	50V
C3	1-102-746-00	CERAMIC	8PF	0.5PF	50V
C4	1-102-743-00	CERAMIC	3PF	0.25PF	50V
C5	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C6	1-102-521-00	CERAMIC	43PF	5%	50V
C7	1-102-074-00	CERAMIC	0.001MF	10%	50V
C8	1-123-617-00	ELECT	10MF	20%	16V
C9	1-123-617-00	ELECT	10MF	20%	16V
C10	1-123-369-00	ELECT	4.7MF	20%	25V
C11	1-102-117-00	CERAMIC	820PF	10%	50V
C12	1-123-618-00	ELECT	22MF	20%	6.3V
C13	1-161-022-00	CERAMIC	0.056MF	10%	25V
C14	1-123-617-00	ELECT	10MF	20%	16V
C15	1-161-013-00	CERAMIC	0.01MF	10%	25V
C16	1-124-434-00	ELECT	220MF	20%	4V
C17	1-123-611-00	ELECT	1MF	20%	50V
C18	1-123-611-00	ELECT	1MF	20%	50V
C19	1-124-464-11	ELECT	0.22MF	20%	50V
C20	1-124-465-00	ELECT	0.47MF	20%	50V
C21	1-104-077-00	POLYSTYRENE	0.001MF	5%	50V
C22	1-123-369-00	ELECT	4.7MF	20%	25V
C23	1-102-074-00	CERAMIC	0.001MF	10%	50V
C24	1-161-052-00	CERAMIC	0.012MF	10%	25V
C25	1-161-052-00	CERAMIC	0.012MF	10%	25V
C26	1-102-106-00	CERAMIC	100PF	10%	50V
C101	1-161-013-00	CERAMIC	0.01MF	10%	25V
C102	1-102-074-00	CERAMIC	0.001MF	10%	50V
C103	1-123-611-00	ELECT	1MF	20%	50V
C104	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C105	1-124-229-00	ELECT	33MF	20%	6.3V
C106	1-161-057-00	CERAMIC	0.033MF	10%	25V
C107	1-124-252-00	ELECT	0.33MF	20%	50V
C108	1-161-013-00	CERAMIC	0.01MF	10%	25V
C109	1-123-611-00	ELECT	1MF	20%	50V
C111	1-161-047-00	CERAMIC	0.0047MF	10%	50V
C112	1-123-306-00	ELECT	47MF	20%	6.3V
C113	1-123-306-00	ELECT	47MF	20%	6.3V
C114	1-108-579-00	MYLAR	0.01MF	5%	50V
C115	1-131-421-00	TANTALUM	1.5MF	20%	6.3V
C116	1-124-433-00	ELECT	100MF	20%	4V
C117	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C118	1-123-617-00	ELECT	10MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C119	1-123-618-00	ELECT	22MF	20%	6.3V
C120	1-123-306-00	ELECT	47MF	20%	6.3V
C121	1-123-661-00	ELECT	100MF	20%	6.3V
C122	1-124-433-00	ELECT	100MF	20%	4V
C201	1-161-013-00	CERAMIC	0.01MF	10%	25V
C202	1-102-074-00	CERAMIC	0.001MF	10%	50V
C203	1-123-611-00	ELECT	1MF	20%	50V
C204	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C205	1-124-229-00	ELECT	33MF	20%	6.3V
C206	1-161-057-00	CERAMIC	0.033MF	10%	25V
C207	1-124-252-00	ELECT	0.33MF	20%	50V
C208	1-161-013-00	CERAMIC	0.01MF	10%	25V
C209	1-123-611-00	ELECT	1MF	20%	50V
C211	1-161-047-00	CERAMIC	0.0047MF	10%	50V
C212	1-124-224-00	ELECT	47MF	20%	6.3V
C213	1-123-306-00	ELECT	47MF	20%	6.3V
C214	1-108-579-00	MYLAR	0.01MF	5%	50V
C215	1-131-421-00	TANTALUM	1.5MF	20%	6.3V
C216	1-124-433-00	ELECT	100MF	20%	4V
C217	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C218	1-131-392-00	TANTALUM	33MF	10%	3.15V
C219	1-123-617-00	ELECT	10MF	20%	16V
C220	1-124-442-00	ELECT	330MF	20%	6.3V
C221	1-123-661-00	ELECT	100MF	20%	6.3V
C301	1-124-224-00	ELECT	47MF	20%	6.3V
C302	1-130-514-00	MYLAR	0.0068MF	10%	50V
C303	1-161-039-00	CERAMIC	0.001MF	10%	25V
C304	1-123-306-00	ELECT	47MF	20%	6.3V
C305	1-124-442-00	ELECT	330MF	20%	6.3V
C306	1-102-106-00	CERAMIC	100PF	10%	50V
C307	1-102-106-00	CERAMIC	100PF	10%	50V
C401	1-131-418-00	TANTALUM	1MF	20%	10V
C402	1-124-442-00	ELECT	330MF	20%	6.3V
C403	1-131-384-00	TANTALUM	15MF	10%	6.3V
C404	1-131-387-00	TANTALUM	47MF	10%	6.3V
CF1	1-527-865-00	FILTER, CERAMIC			
CF2	1-567-051-61	FILTER, CERAMIC			
CF3	1-567-051-61	FILTER, CERAMIC			
CF4	1-567-051-61	FILTER, CERAMIC			
CV1-4	1-151-437-00	CAP, TUNING, POLYETHYLENE (INCLUDING CT1-4)			
D1	8-719-815-55	DIODE 1S1555			
D2	8-719-815-55	DIODE 1S1555			
D301	8-719-901-96	DIODE SLP161B (OPR/BATT)			
HE101	8-658-096-02	HEAD, ERASE EBF5-36			
HRP101	1-543-267-11	HEAD, RECORD/PLAYBACK			

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SEE INFORMATION

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
IC1	1-807-018-11	IC UPC1303G			
IC2	1-806-901-11	IC BA1360			
IC101	8-759-915-90	IC CX20023			
IC102	1-806-902-11	IC BA5204			
IC401	8-759-801-12	IC LA5523			
J101	1-507-950-11	JACK (SMALL TYPE)(HEADPHONES)			
J102	1-507-950-41	JACK (SMALL TYPE)(MIC)			
J103	1-507-723-00	JACK, EXTENTION POWER (DC IN 3V)			
L1	*1-406-161-11	COIL, FM OSCILLATOR			
L2	*1-426-074-00	COIL, FM RF (A)			
L3	1-406-042-00	COIL, FM OSC			
L101	1-409-365-00	COIL, TRAP OR			
L101	1-409-382-11	COIL, TRAP			
L102	1-408-284-00	MICRO INDUCTOR 10UH			
L401	1-408-284-00	MICRO INDUCTOR 10UH			
M101	X-3317-234-1	MOTOR KIT ASSY			
Q1	8-729-117-54	TRANSISTOR 2SA1175			
Q101	8-729-853-63	TRANSISTOR 2SC536SP			
Q301	8-729-811-24	TRANSISTOR 2SD1012			
R1	1-249-419-11	CARBON	1.5K	5%	1/6W
R2	1-247-804-00	CARBON	75		1/6W
R3	1-249-441-11	CARBON	100K	5%	1/6W
R4	1-249-421-11	CARBON	2.2K	5%	1/6W
R5	1-247-817-00	CARBON	270	5%	1/6W
R6	1-249-418-11	CARBON	1.2K	5%	1/6W
R7	1-249-423-11	CARBON	3.3K	5%	1/6W
R8	1-249-423-11	CARBON	3.3K	5%	1/6W
R9	1-249-429-11	CARBON	10K	5%	1/6W
R10	1-249-417-11	CARBON	1K	5%	1/6W
R11	1-249-429-11	CARBON	10K	5%	1/6W
R12	1-247-783-00	CARBON	10	5%	1/6W
R101	1-247-851-00	CARBON	6.8K	5%	1/6W
R102	1-249-417-11	CARBON	1K	5%	1/6W
R103	1-249-405-11	CARBON	100	5%	1/6W
R104	1-249-415-11	CARBON	680	5%	1/6W
R105	1-249-441-11	CARBON	100K	5%	1/6W
R106	1-249-420-11	CARBON	1.8K	5%	1/6W
R107	1-247-838-00	CARBON	2K	5%	1/6W
R108	1-249-429-11	CARBON	10K	5%	1/6W
R109	1-247-872-00	CARBON	51K	5%	1/6W
R110	1-247-830-00	CARBON	910	5%	1/6W
R111	1-247-770-00	CARBON	3	5%	1/6W
R112	1-247-775-00	CARBON	4.7	5%	1/6W
R114	1-247-819-00	CARBON	330	5%	1/6W
R115	1-247-842-00	CARBON	3K	5%	1/6W
R116	1-249-415-11	CARBON	680	5%	1/6W
R201	1-247-851-00	CARBON	6.8K	5%	1/6W
R202	1-249-417-11	CARBON	1K	5%	1/6W
R203	1-249-405-11	CARBON	100	5%	1/6W
R204	1-249-415-11	CARBON	680	5%	1/6W
R205	1-249-441-11	CARBON	100K	5%	1/6W
R206	1-247-837-00	CARBON	1.8K	5%	1/6W
R207	1-247-838-00	CARBON	2K	5%	1/6W
R208	1-249-429-11	CARBON	10K	5%	1/6W
R209	1-247-872-00	CARBON	51K	5%	1/6W
R210	1-247-830-00	CARBON	910	5%	1/6W
R211	1-247-770-00	CARBON	3	5%	1/6W
R212	1-247-775-00	CARBON	4.7	5%	1/6W
R213	1-210-825-00	CARBON	3.3M	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R214	1-247-814-00	CARBON	200	5%	1/6W
R215	1-247-842-00	CARBON	3K	5%	1/6W
R216	1-249-415-11	CARBON	680	5%	1/6W
R301	1-247-852-00	CARBON	7.5K	5%	1/6W
R302	1-249-431-11	CARBON	15K	5%	1/6W
R303	1-247-775-00	CARBON	4.7	5%	1/6W
R304	1-247-790-00	CARBON	20	5%	1/6W
R305	1-247-794-00	CARBON	30	5%	1/6W
R306	1-247-816-00	CARBON	240	5%	1/6W
R307	1-249-419-11	CARBON	1.5K	5%	1/6W
R308	1-249-429-11	CARBON	10K	5%	1/6W
R401	1-249-424-11	CARBON	3.9K	5%	1/6W
R402	1-249-431-11	CARBON	15K	5%	1/6W
R403	1-249-417-11	CARBON	1K	5%	1/6W
R404	1-249-425-11	CARBON	4.7K	5%	1/6W
R405	1-249-430-11	CARBON	12K	5%	1/6W
R406	1-249-434-11	CARBON	27K	5%	1/6W
RV101	1-230-485-21	RES, VAR, CARBON 10K/10K (VOLUME)			
S1	1-554-222-00	SWITCH, SLIDE (BAND)			
S2	1-554-611-00	SWITCH, SLIDE (FM SENS)			
S101	1-554-122-00	SWITCH, SLIDE (FUNCTION)			
S102	1-570-387-11	SWITCH, SLIDE (REC/PB)			
S103	1-554-222-00	SWITCH, SLIDE (PB EQ)			
S104	1-554-611-00	SWITCH, SLIDE (PAUSE)			
S105	1-570-386-11	SWITCH, SLIDE (SPEED CONTROL)			
S106	1-553-817-00	SWITCH, LEAF (MOTOR POWER)			
T1	1-402-180-11	ANTENNA, FERRITE-ROD (MW)			
T2	1-406-062-00	COIL, MW OSC			
T3	1-404-636-11	COIL, MW IF			
T301	1-433-276-00	TRANSFORMER, BIAS OSCILLATOR			
TH402	1-800-279-21	THERMISTOR 5K			
THP401	1-806-881-11	THERMISTOR (POSITIVE)			
VR1	1-230-502-11	RES, ADJ, CARBON 5K (VCO)			
VR401	1-230-775-11	RES, ADJ, CARBON 10K (SPEED)			

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-542-071-11	MICROPHONE (C-3001)
3-317-281-01	SPACER
3-317-282-01	CUSHION
3-317-283-01	(US)...INDIVIDUAL CARTON
3-321-020-01	BELT, SHOULDER
3-338-354-01	LABEL, MODEL NUMBER
3-527-213-00	LABEL, SERIAL NUMBER
3-570-631-81	BAG, PROTECTION
3-701-616-00	BAG, POLYETHYLENE
3-701-622-00	BAG, POLYETHYLENE
3-701-624-00	BAG, POLYETHYLENE
3-703-707-01	STICKER, SONY SYMBOL (21)
*3-764-430-01	INSTRUCTION, DBP CAUTION
3-769-043-21	MANUAL, INSTRUCTION
3-769-043-31	(Canadian)...MANUAL, INSTRUCTION
3-795-748-21	(US)...SAFETY INSTRUCTIONS, HEADPHONE
8-952-268-90	HEADPHONE MDR-010L SET
X-3324-513-1	STAND ASSY, MICROPHONE

9-952-678-11
(Including 9-952-678-91)

Sony Corporation
Audio Group

English
87D0640-1
Printed in Japan
©1987.4

WM-F46

SERVICE MANUAL

US Model
Canadian Model

No. 1
May, 1987

SUPPLEMENT

File this supplement with the service manual.

SUBJECT: Changes on Mounting and Schematic Diagrams, Exploded Views, Parts List and Dial-Cord Stringing.

1. CHANGES ON ELECTRICAL PARTS LIST

Ref. No.	*Part No.*	*Description*			
C9	1-124-233-00	ELECT	10MF	20%	16V (low-profile type)
C405	1-102-074-00	CERAMIC	0.001MF	10%	50V
THP401	1-807-222-11	THERMISTOR (POSITIVE) (110Ω) (FOR MABUCHI MOTOR ONLY)			

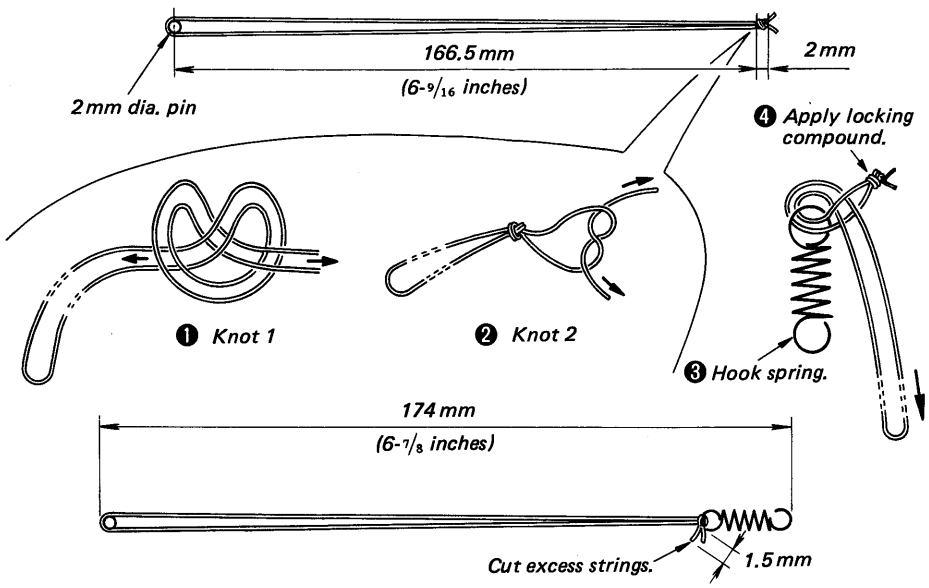
FM/AM
STEREO CASSETTE-CORDER

SONY®

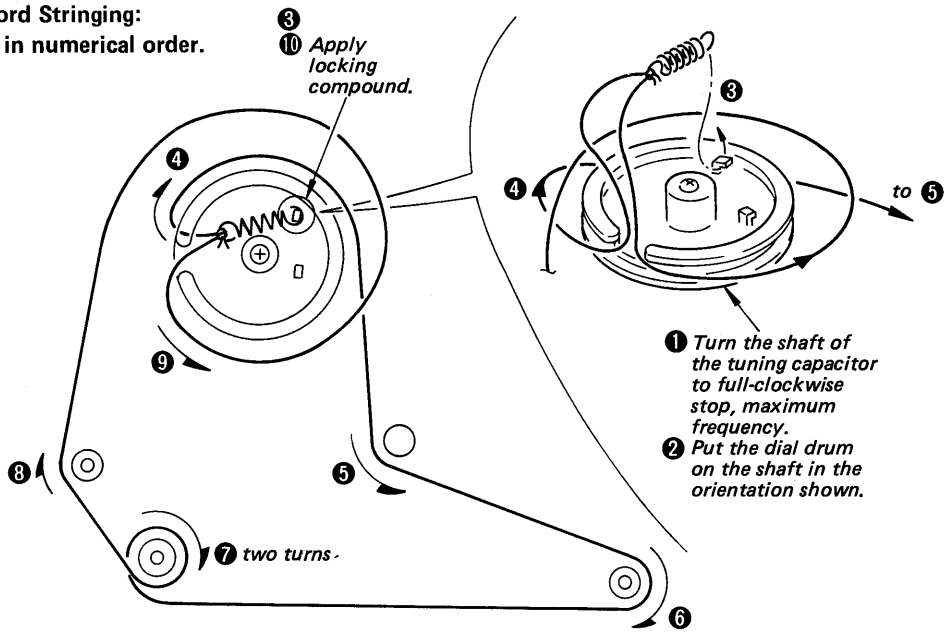
TC

2. DIAL-CORD STRINGING

2-1. Dial-cord preparation:

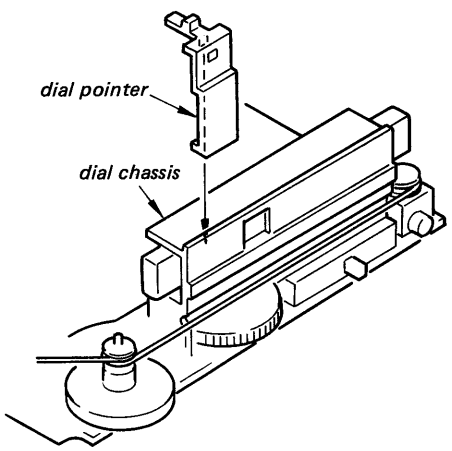


2-2. Dial-cord Stringing:
String in numerical order.



2-3. Dial-pointer setting:

1) Put the dial pointer on the dial chassis.

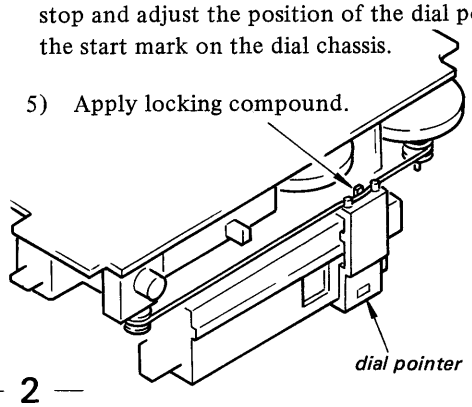


2) Turn the TUNING knob to move the dial pointer to the half-way position.

3) Put the dial cord on the dial pointer.

4) Turn the TUNING knob to the lowest-frequency stop and adjust the position of the dial pointer to the start mark on the dial chassis.

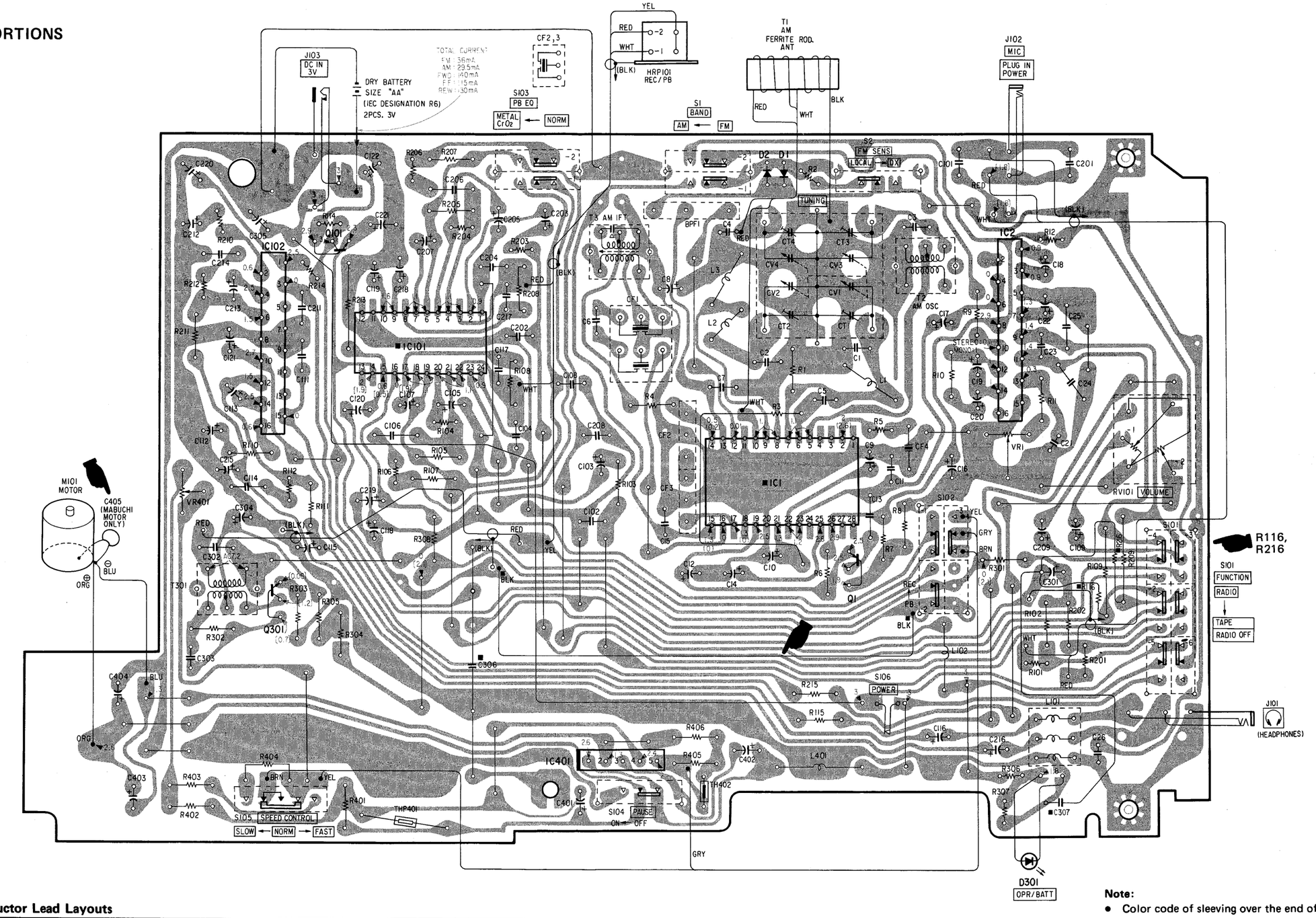
5) Apply locking compound.



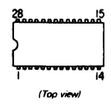
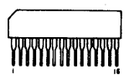
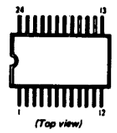
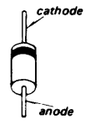
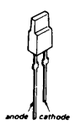
3. MOUNTING DIAGRAM

☛: CHANGED PORTIONS

Q · IC	D
	2 1
101	
IC2	
IC102	
IC101	
IC1	
1	
301	
IC401	
3 4	
301	

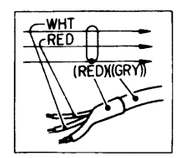


Semiconductor Lead Layouts

μPC1303G	LA5523	BA1360 BA5204	CX20023	1S1555	SLP161B	2SC536SP 2SD1012	2SA1175
							
(Top view)	1 2 3 4 5		(Top view)	cathode anode	anode cathode	E C B	E C

Note:

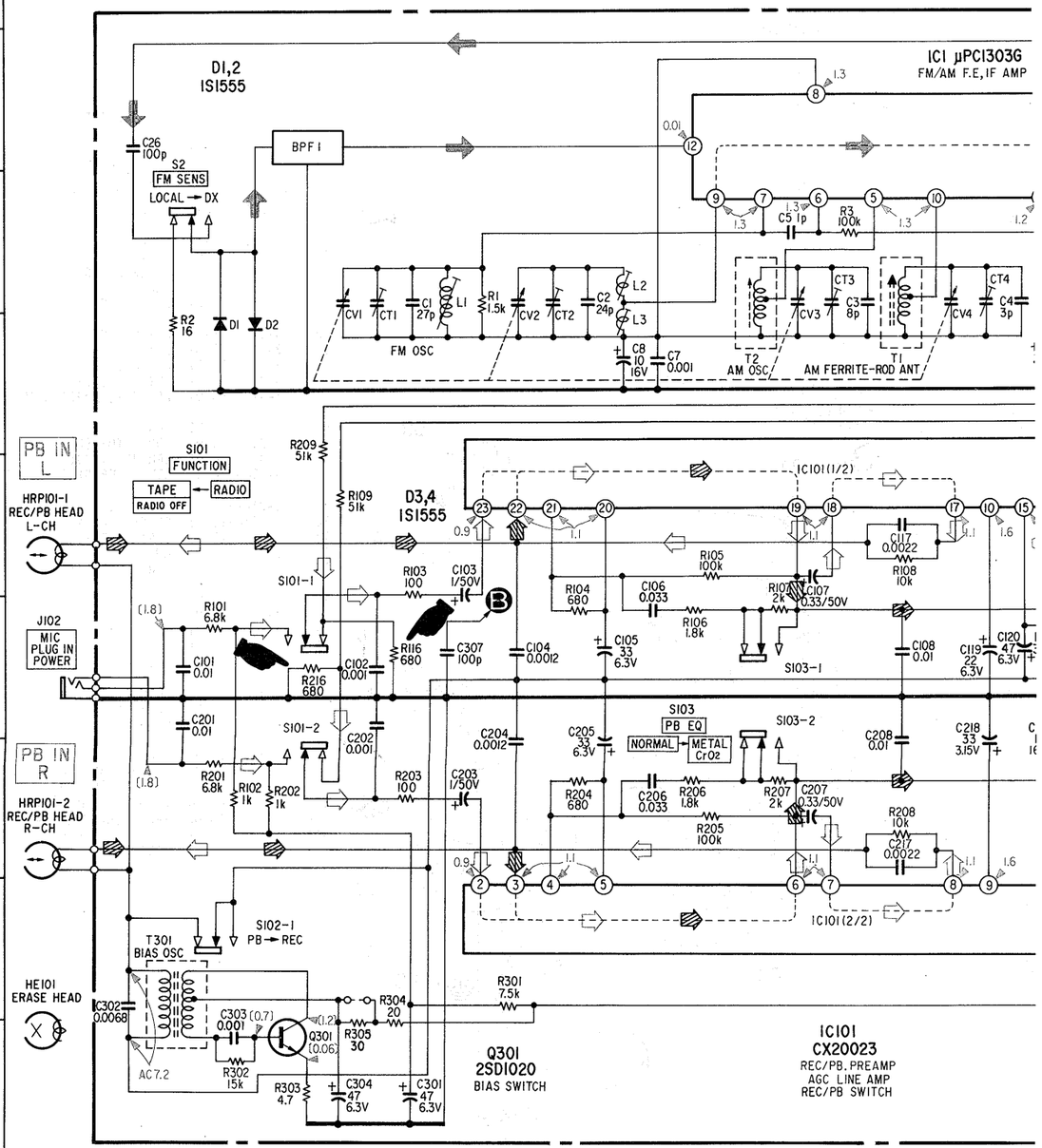
- Color code of sleeving over the end of the jacket.

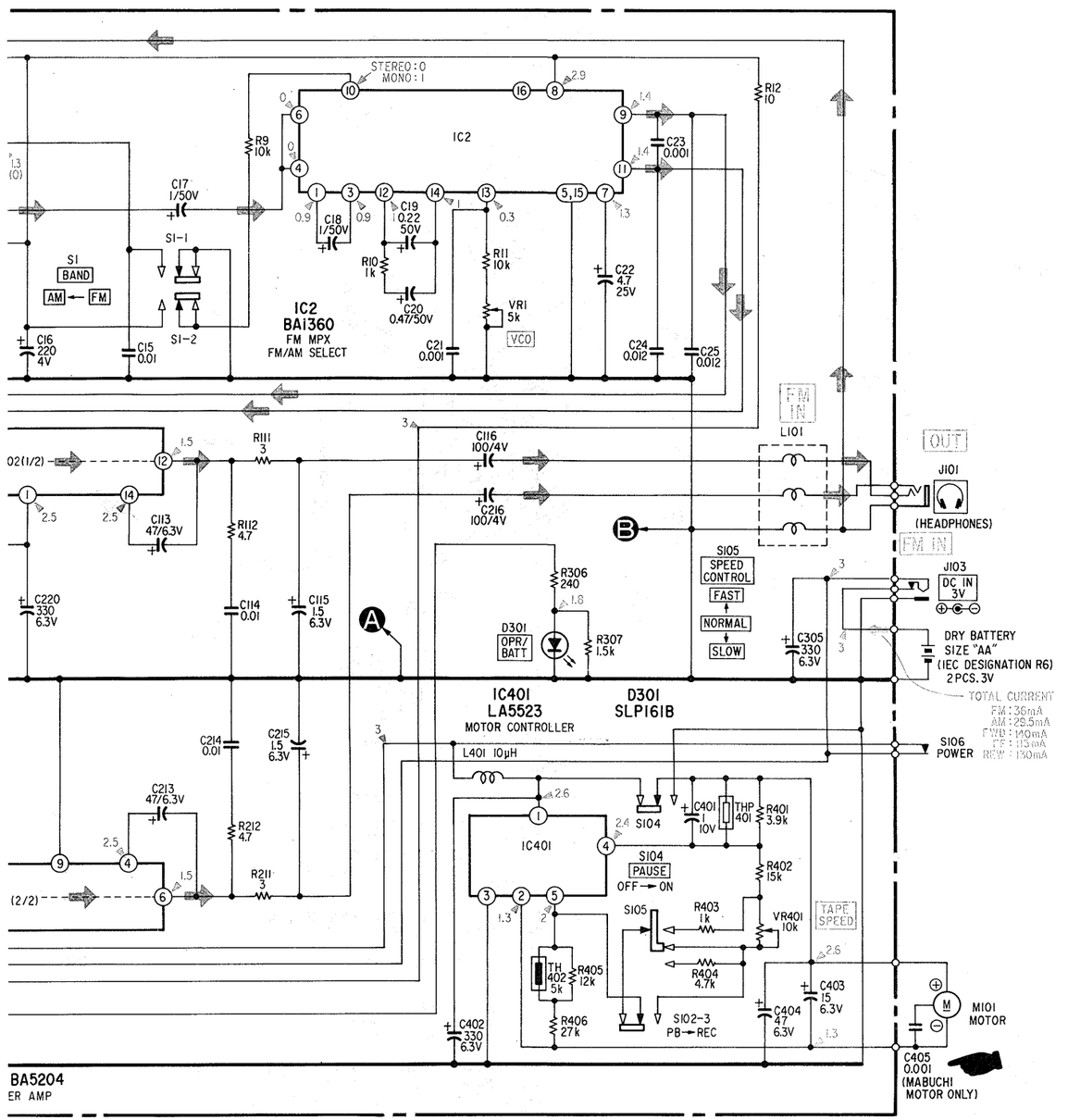


- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

4. SCHEMATIC DIAGRAM

☛: CHANGED PORTIONS





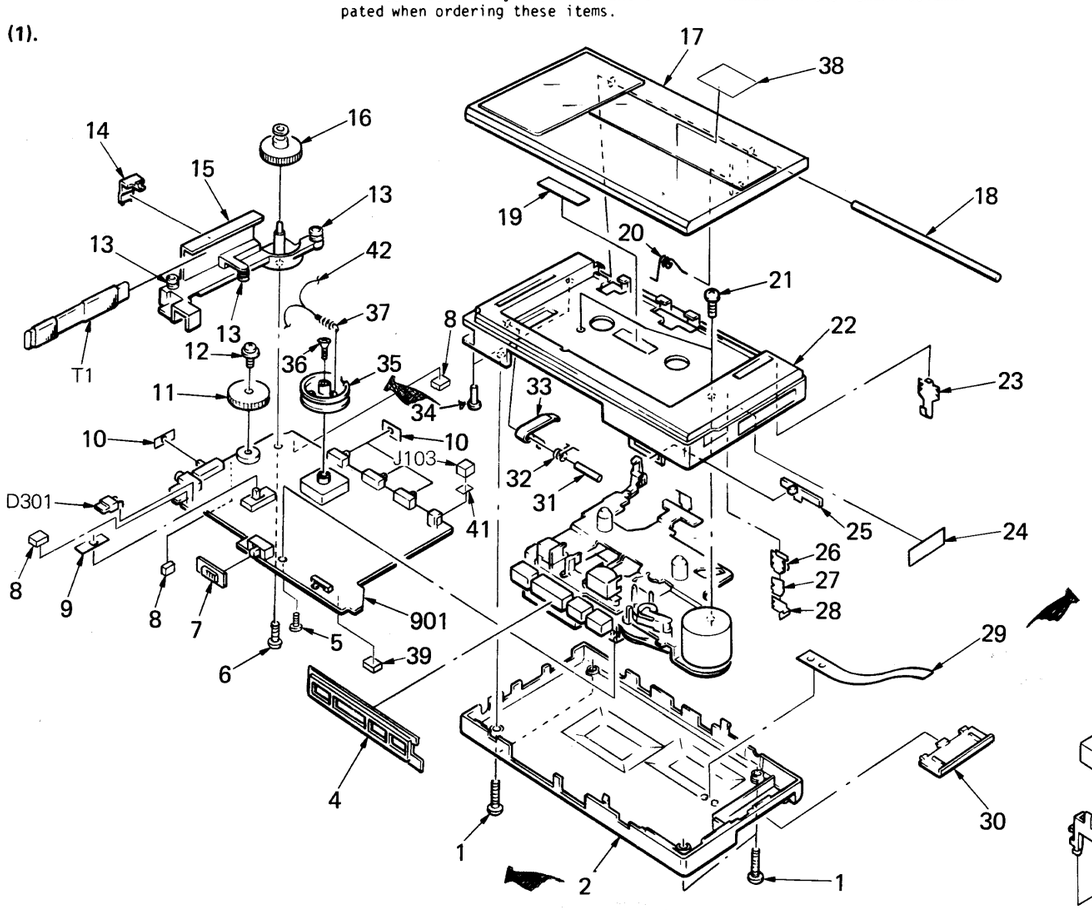
NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

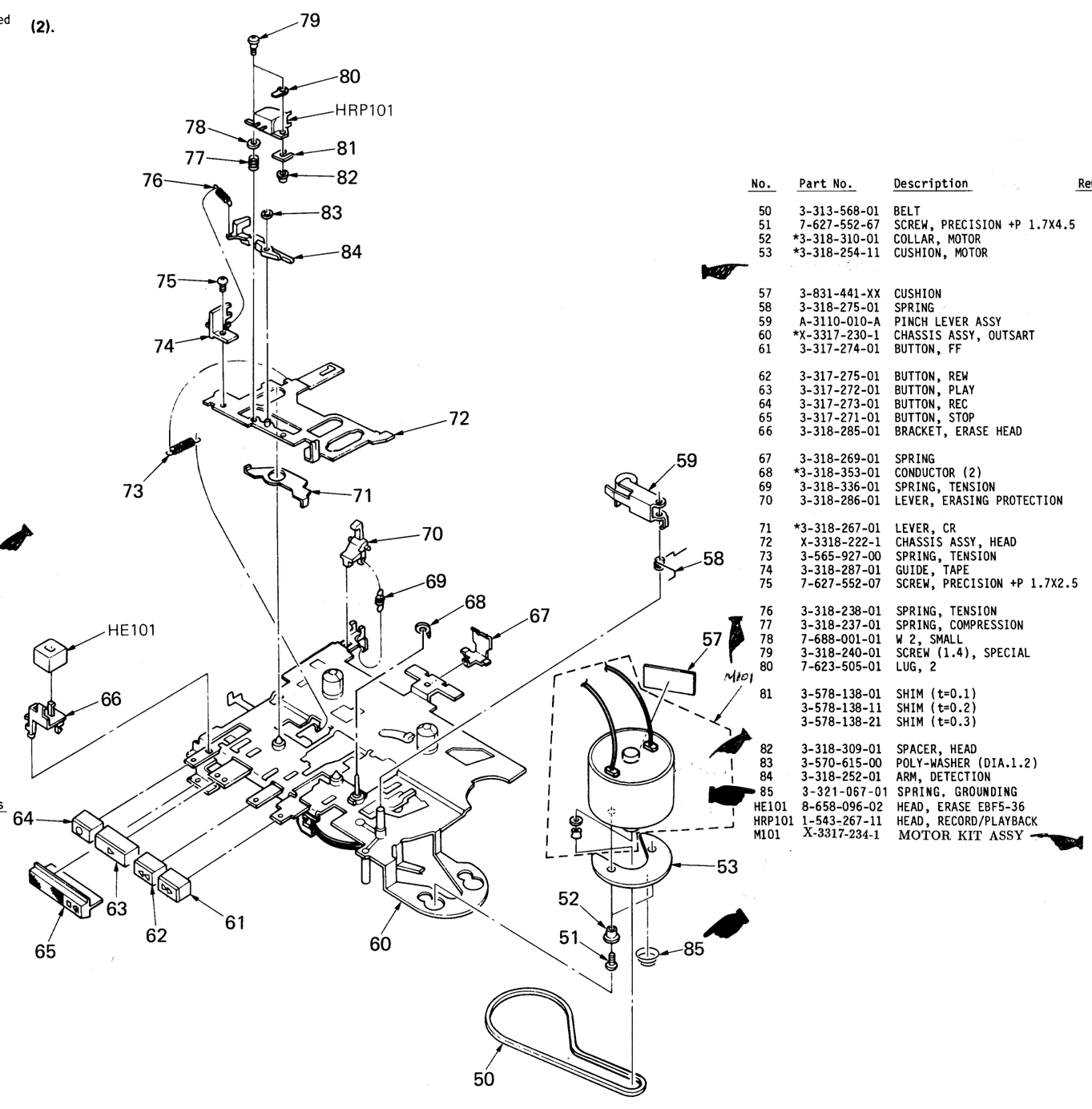
· Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

(1).



(2).



No.	Part No.	Description	Remarks
1	7-685-107-19	SCREW +P 2X12 TYPE2 SLIT	
2	3-317-280-21	CABINET (REAR)	
4	3-317-270-01	PANEL, CONTROL	
5	7-621-772-08	SCREW +B 2X3	
6	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
7	3-317-264-01	BUTTON, PAUSE	
8	9-911-840-XX	CUSHION (A)	
9	9-911-863-XX	SHEET, INSULATING	
10	3-305-653-00	PLATE (A), BLIND	
11	3-327-003-01	KNOB, VOL	
12	3-703-502-31	SCREW	
13	3-881-911-00	PULLEY	
14	3-317-260-01	POINTER	
15	3-317-278-01	CHASSIS, DIAL	
16	3-317-261-01	KNOB, TUN	
☛17	X-3335-632-1	(US).....LID ASSY, CASSETTE	
	X-3335-632-2	(Canadian)...LID ASSY, CASSETTE	
18	*3-327-012-01	SHAFT, CASSETTE LID	
19	3-578-101-00	PLATE, ORNAMENTAL	
20	3-317-262-01	SPRING	
21	3-318-203-11	SCREW (B1.7X6), TAPPING	
22	3-317-279-31	(US, Canadian)··· CABINET (FRONT)	

No.	Part No.	Description	Remarks
23	3-319-009-01	TERMINAL BOARD (A), BATTERY	
24	3-527-213-00	LABEL, SERIAL NUMBER	
25	3-317-263-01	KNOB, SLIDE	
26	3-319-010-01	TERMINAL BOARD (C), BATTERY	
27	3-309-443-00	SPRING, LEAF	
28	3-319-011-01	TERMINAL BOARD (D), BATTERY	
29	9-911-816-01	RIBBON, BATTERY	
30	3-317-276-21	LID, BATTERY CASE	
31	3-703-357-06	PIN, PARALLEL (DIA. 1.6X14)	
32	3-318-215-01	SPRING	
33	3-321-022-01	LEVER, EJECT	
34	3-327-008-01	SHAFT, BELT	
35	*3-317-266-01	DRUM, DIAL	
36	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL	
37	3-317-268-01	SPRING, TENTION	
38	3-703-707-01	STICKER, SONY SYMBOL (21)	
39	9-911-845-XX	CUSHION	
40	3-831-441-11	CUSHION (B)	
41	9-911-863-XX	SHEET, JACK, DC	
42	9-911-825-52	STRING, DIAL 0.3MM	
901	*A-3215-858-A	PC BOARD ASSY, MAIN	
T1	1-402-180-11	ANTENNA, FERRITE-ROD (MW)	

No.	Part No.	Description	Remarks
50	3-313-568-01	BELT	
51	7-627-552-67	SCREW, PRECISION +P 1.7X4.5	
52	*3-318-310-01	COLLAR, MOTOR	
53	*3-318-254-11	CUSHION, MOTOR	
57	3-831-441-XX	CUSHION	
58	3-318-275-01	SPRING	
59	A-3110-010-A	PINCH LEVER ASSY	
60	*X-3317-230-1	CHASSIS ASSY, OUTSART	
61	3-317-274-01	BUTTON, FF	
62	3-317-275-01	BUTTON, REW	
63	3-317-272-01	BUTTON, PLAY	
64	3-317-273-01	BUTTON, REC	
65	3-317-271-01	BUTTON, STOP	
66	3-318-285-01	BRACKET, ERASE HEAD	
67	3-318-269-01	SPRING	
68	*3-318-353-01	CONDUCTOR (2)	
69	3-318-336-01	SPRING, TENSION	
70	3-318-286-01	LEVER, ERASING PROTECTION	
71	*3-318-267-01	LEVER, CR	
72	X-3318-222-1	CHASSIS ASSY, HEAD	
73	3-565-927-00	SPRING, TENSION	
74	3-318-287-01	GUIDE, TAPE	
75	7-627-552-07	SCREW, PRECISION +P 1.7X2.5	
76	3-318-238-01	SPRING, TENSION	
77	3-318-237-01	SPRING, COMPRESSION	
78	7-688-001-01	W 2, SMALL	
79	3-318-240-01	SCREW (1.4), SPECIAL	
80	7-623-505-01	LUG, 2	
81	3-578-138-01	SHIM (t=0.1)	
	3-578-138-11	SHIM (t=0.2)	
	3-578-138-21	SHIM (t=0.3)	
82	3-318-309-01	SPACER, HEAD	
83	3-570-615-00	POLY-WASHER (DIA.1.2)	
84	3-318-252-01	ARM, DETECTION	
☛85	3-321-067-01	SPRING, GROUNDING	
HE101	8-658-096-02	HEAD, ERASE EBF5-36	
HRP101	1-543-267-11	HEAD, RECORD/PLAYBACK	
M101	X-3317-234-1	MOTOR KIT ASSY	

9-952-678-81

Sony Corporation
Audio Group

English
87F0640-1
Printed in Japan
©1987.6

WM-F46

SONY®
SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-2

File this supplement with the service manual.

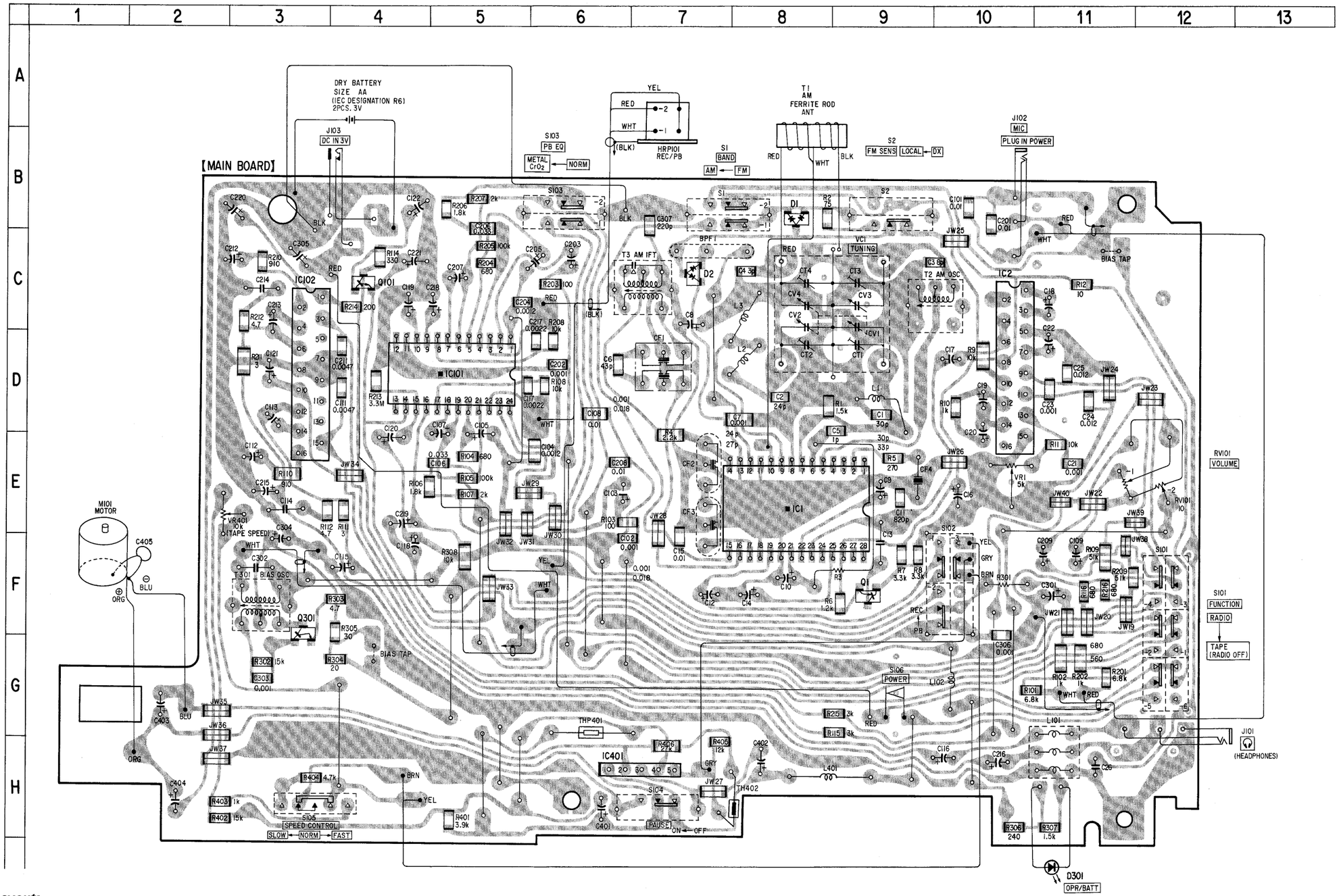
SUBJECT: CHIP components are employed on the new printed wiring board.

TC

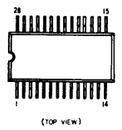
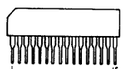
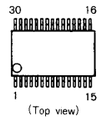
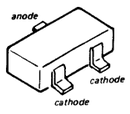
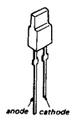
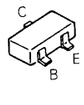
1. PRINTED WIRING BOARD

- **Semiconductor Lead Layouts**

Ref. No.	Location
D1	B-8
D2	C-7
D301	I-11
IC1	E-8
IC2	C-10
IC101	D-5
IC102	C-3
IC401	H-6
Q1	F-9
Q101	C-4
Q301	F-3

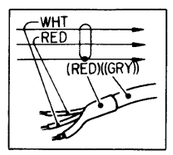


Semiconductor Lead Layouts

CXA1019M	LA5523	BA1360 BA5204	CX20023	1S2835	SLP161B	2SA1179M5 2SD596
						

Note:

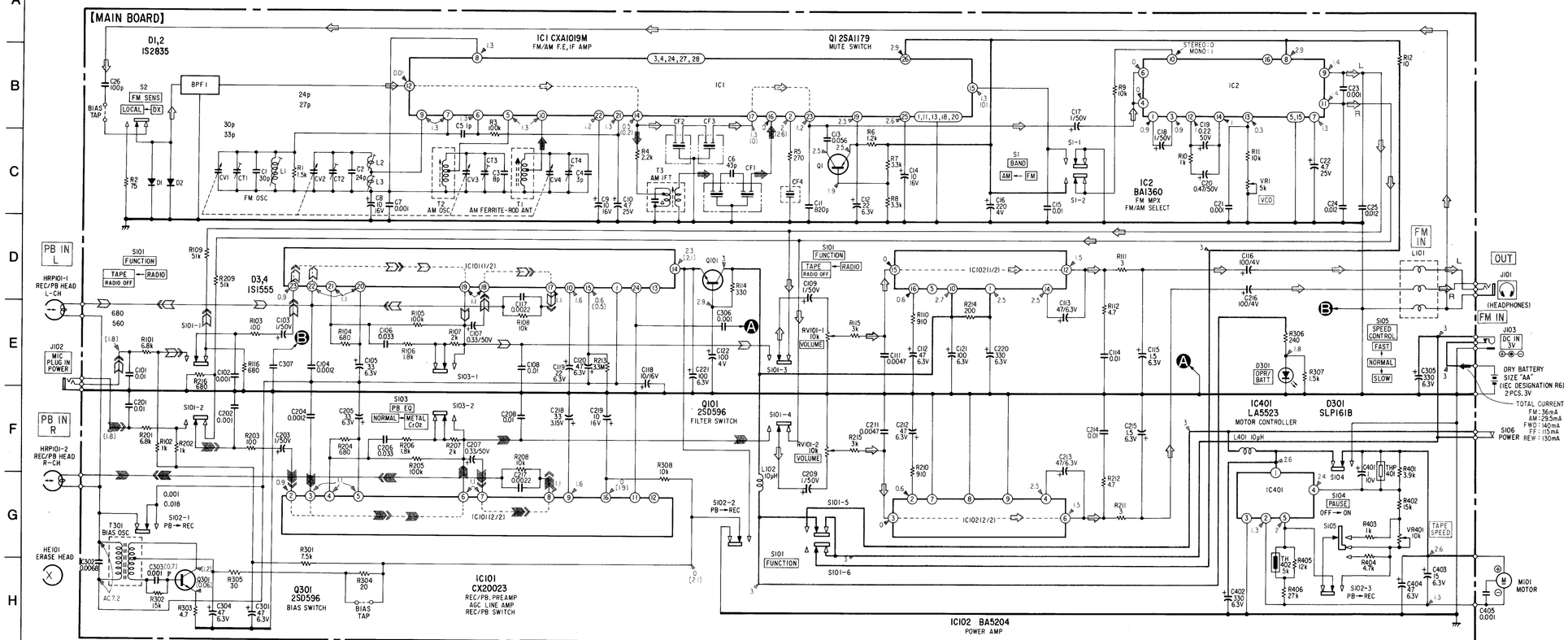
- Color code or sleeving over the end of the jacket.



- ○— : parts extracted from the component side..
- —● : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

SUPPLEMENT-2 WM-F46

2. SCHEMATIC DIAGRAM



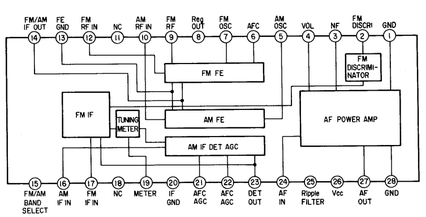
N te:

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.

- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ⎓ : B+ bus.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 3 V and fed with requrated dc power supply from DC IN jack.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ) : MW
  { } : REC
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ➡ : AM
  ⇨L : FM (L-CH)
  ⇨R : FM (R-CH)
  ⇨ : PB (L-CH)
  ➡ : PB (R-CH)
  ⇨⇨ : REC (L-CH)
  ➡➡ : REC (R-CH)
- Switches:

Ref. No.	Switch	Position
S1	BAND	FM
S2	FM SENS	DX
S101	FUNCTION	RADIO
S102	REC/PB	PB
S103	PB EQ	NORMAL
S104	PAUSE	OFF
S105	SPEED CONTROL	NORMAL
S106	POWER	OFF

IC1 CXA1019M



3. ELECTRICAL PARTS LIST

NOTE:

Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	Description		
901	A-3216-398-A	PC BOARD ASSY, MAIN		
BPF1	1-235-142-00	FILTER, BAND PASS		
C1	1-163-104-00	CERAMIC CHIP 30PF	5%	50V
C2	1-163-102-00	CERAMIC CHIP 24PF	5%	50V
C3	1-163-091-00	CERAMIC CHIP 8PF	0.25PF	50V
C4	1-163-086-00	CERAMIC CHIP 3PF	0.25PF	50V
C5	1-163-083-00	CERAMIC CHIP 1PF	0.25PF	50V
C6	1-163-108-00	CERAMIC CHIP 43PF	5%	50V
C7	1-163-205-00	CERAMIC CHIP 0.001MF	10%	50V
C8	1-124-462-00	ELECT 10MF	20%	16V
C9	1-124-462-00	ELECT 10MF	20%	16V
C10	1-124-245-00	ELECT 4.7MF	20%	25V
C11	1-163-139-00	CERAMIC CHIP 820PF	10%	50V
C12	1-124-638-11	ELECT 22MF	20%	6.3V
C13	1-161-060-00	CERAMIC 0.056MF	10%	25V
C14	1-124-462-00	ELECT 10MF	20%	16V
C15	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C16	1-124-434-00	ELECT 220MF	20%	4V
C17	1-123-611-00	ELECT 1MF	20%	50V
C18	1-123-611-00	ELECT 1MF	20%	50V
C19	1-124-464-11	ELECT 0.22MF	20%	50V
C20	1-124-465-00	ELECT 0.47MF	20%	50V
C21	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
C22	1-124-245-00	ELECT 4.7MF	20%	25V
C23	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C24	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
C25	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
C26	1-102-106-00	CERAMIC 100PF	10%	50V
C101	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C102	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C103	1-123-611-00	ELECT 1MF	20%	50V
C104	1-163-207-00	CERAMIC CHIP 0.0012MF	10%	50V
C105	1-124-229-00	ELECT 33MF	20%	6.3V
C106	1-163-034-00	CERAMIC CHIP 0.033MF	10%	25V
C107	1-124-252-00	ELECT 0.33MF	20%	50V
C108	1-163-059-00	CERAMIC CHIP 0.01MF	10%	50V
C109	1-123-611-00	ELECT 1MF	20%	50V
C111	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C112	1-124-224-00	ELECT 47MF	20%	6.3V
C113	1-124-224-00	ELECT 47MF	20%	6.3V
C114	1-130-483-00	MYLAR 0.01MF	5%	50V
C115	1-131-421-00	TANTALUM 1.5MF	20%	6.3V
C116	1-124-433-00	ELECT 100MF	20%	4V
C117	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V
C118	1-124-462-00	ELECT 10MF	20%	16V
C119	1-124-638-11	ELECT 22MF	20%	6.3V
C120	1-124-224-00	ELECT 47MF	20%	6.3V
C121	1-123-661-00	ELECT 100MF	20%	6.3V
C122	1-124-433-00	ELECT 100MF	20%	4V
C201	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C202	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C203	1-123-611-00	ELECT 1MF	20%	50V
C204	1-163-143-00	CERAMIC CHIP 0.0012MF	10%	50V
C205	1-124-229-00	ELECT 33MF	20%	6.3V
C206	1-163-074-00	CERAMIC CHIP 0.033MF	10%	25V
C207	1-124-252-00	ELECT 0.33MF	20%	50V
C208	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C209	1-123-611-00	ELECT 1MF	20%	50V
C211	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C212	1-124-224-00	ELECT 47MF	20%	6.3V
C213	1-124-224-00	ELECT 47MF	20%	6.3V
C214	1-130-483-00	MYLAR 0.01MF	5%	50V
C215	1-131-421-00	TANTALUM 1.5MF	20%	6.3V
C216	1-124-433-00	ELECT 100MF	20%	4V
C217	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V
C218	1-131-386-00	TANTALUM 33MF	10%	3.15V
C219	1-124-462-00	ELECT 10MF	20%	16V
C220	1-124-442-00	ELECT 330MF	20%	6.3V
C221	1-123-661-00	ELECT 100MF	20%	6.3V
C301	1-124-224-00	ELECT 47MF	20%	6.3V
C302	1-130-481-00	MYLAR 0.0068MF	10%	50V
C303	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C304	1-124-224-00	ELECT 47MF	20%	6.3V
C305	1-124-442-00	ELECT 330MF	20%	6.3V
C306	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C307	1-163-125-00	CERAMIC CHIP 220PF	10%	50V
C401	1-131-413-00	TANTALUM 1MF	20%	10V
C402	1-124-442-00	ELECT 330MF	20%	6.3V
C403	1-131-384-41	TANTALUM 15MF	10%	6.3V
C404	1-131-387-00	TANTALUM 47MF	10%	6.3V
C405	1-161-039-00	CAP, CERAMIC 0.001MF		
CF1	1-527-865-00	FILTER, CERAMIC		
CF2	1-567-051-61	FILTER, CERAMIC		
CF3	1-567-051-61	FILTER, CERAMIC		
CF4	1-567-051-61	FILTER, CERAMIC		
D1	8-719-100-03	DIODE 1S2835		
D2	8-719-100-03	DIODE 1S2835		
D301	8-719-901-96	DIODE SLP161B		

Ref.No.	Part No.	Description
HE101	8-658-096-02	HEAD, ERASE EBF5-36
HRP101	1-543-267-21	HEAD, RECORD/PLAYBACK
IC1	8-752-030-15	IC CXA1019M
IC2	1-806-901-11	IC BA1360
IC101	8-759-915-90	IC CX20023
IC102	1-806-902-11	IC BA5204
IC401	8-759-801-12	IC LA5523
J101	1-562-917-11	JACK (SMALL TYPE)(HEADPHONES)
J102	1-507-950-41	JACK (SMALL TYPE)(MIC)
J103	1-507-723-00	JACK, EXTENTION POWER (DC IN 3V)
JW19	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW20	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW21	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW22	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW23	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW24	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW25	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW26	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW27	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW28	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW29	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW30	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW31	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW32	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW33	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW34	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW35	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW36	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW37	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW38	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW39	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW40	1-216-295-00	METAL GLAZE 0 5% 1/10W
L1	1-406-161-11	COIL, FM OSCILLATOR
L2	1-426-074-00	COIL, FM RF (A)
L3	1-406-042-00	COIL, FM OSC
L101	1-409-365-00	COIL, TRAP
L102	1-408-117-00	INDUCTOR 10UH
L401	1-408-117-00	INDUCTOR 10UH
M101	X-3317-234-1	MOTOR KIT ASSY
Q1	8-729-800-91	TRANSISTOR 2SA1179M5
Q101	8-729-159-64	TRANSISTOR 2SD596
Q301	8-729-159-64	TRANSISTOR 2SD596

Ref.No.	Part No.	Description			
R1	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R2	1-216-022-00	METAL GLAZE	75	5%	1/10W
R3	1-249-441-11	CARBON	100K	5%	1/4W
R4	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R5	1-216-035-00	METAL GLAZE	270	5%	1/10W
R6	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R7	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R8	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R9	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R10	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R11	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R12	1-216-001-00	METAL GLAZE	10	5%	1/10W
R101	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R102	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R103	1-216-025-00	METAL GLAZE	100	5%	1/10W
R104	1-216-045-00	METAL GLAZE	680	5%	1/10W
R105	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R106	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R107	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R108	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R109	1-216-239-00	METAL GLAZE	51K	5%	1/8W
R110	1-216-197-00	METAL GLAZE	910	5%	1/8W
R111	1-216-303-11	METAL GLAZE	3	5%	1/10W
R112	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R114	1-216-037-00	METAL GLAZE	330	5%	1/10W
R115	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R116	1-216-045-00	METAL GLAZE	680	5%	1/10W
R201	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R202	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R203	1-216-025-00	METAL GLAZE	100	5%	1/10W
R204	1-216-045-00	METAL GLAZE	680	5%	1/10W
R205	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R206	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R207	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R208	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R209	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R210	1-216-048-00	METAL GLAZE	910	5%	1/10W
R211	1-216-137-00	METAL GLAZE	3	5%	1/8W
R212	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R213	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W
R214	1-216-032-00	METAL GLAZE	200	5%	1/10W
R215	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R216	1-216-045-00	METAL GLAZE	680	5%	1/10W
R301	1-215-442-00	CARBON	7.5K	5%	1/4W
R302	1-216-077-00	METAL GLAZE	15K	5%	1/10W

Ref.No.	Part No.	Description			
R303	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R304	1-216-008-11	METAL GLAZE	20	5%	1/10W
R305	1-216-012-00	METAL GLAZE	30	5%	1/10W
R306	1-216-034-00	METAL GLAZE	240	5%	1/10W
R307	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R308	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R401	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R402	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R403	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R404	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R405	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R406	1-216-232-00	METAL GLAZE	27K	5%	1/8W
RV101	1-230-485-21	RES, VAR, CARBON 10K/10K (VOLUME)			
S1	1-554-222-00	SWITCH, SLIDE (BAND)			
S2	1-554-222-00	SWITCH, SLIDE (FM SENS)			
S101	1-554-122-00	SWITCH, SLIDE (FUNCITON)			
S102	1-570-387-11	SWITCH, SLIDE (REC/PB)			
S103	1-554-222-00	SWITCH, SLIDE (PB EQ)			
S104	1-554-222-00	SWITCH, SLIDE (PAUSE)			
S105	1-570-386-11	SWITCH, SLIDE (SPEED CONTROL)			
S106	1-553-817-00	SWITCH, LEAF (POWER)			
T1	1-402-180-21	ANTENNA, FERRITE-ROD (MW)			
T2	1-406-062-31	COIL, MW OSC			
T3	1-404-636-11	COIL, MW IF			
T301	1-433-276-00	TRANSFORMER, BIAS OSCILLATOR			
TH402	1-800-279-21	THERMISTOR 5K			
THP401	1-807-222-11	THERMISTOR (POSITIVE)			
VC1	1-151-437-00	CAP, TUNING, POLYETHYLENE (TUNING)			
VR1	1-230-502-21	RES, ADJ, CARBON 5K (VCO)			
VR401	1-230-775-11	RES, ADJ, CARBON 10K (TAPE SPEED)			

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